STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER: Bonanza 1023-5G3CS
2. TYPE OF WORK: DRILL NEW WELL (●) REENTER P&A WELL ( ) DEEPEN WELL ( )		3. FIELD OR WILDCAT: NATURAL BUTTES
4. TYPE OF WELL: Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE: 720 929-6587
8. ADDRESS OF OPERATOR: P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL: mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE): UTU 33433	11. MINERAL OWNERSHIP: FEDERAL (●) INDIAN ( ) STATE ( ) FEE ( )	12. SURFACE OWNERSHIP: FEDERAL (●) INDIAN ( ) STATE ( ) FEE ( )
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS: YES (●) (Submit Commingling Application) NO ( )	19. SLANT: VERTICAL ( ) DIRECTIONAL (●) HORIZONTAL ( )

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2073 FNL 1480 FEL	SWNE	5	10.0 S	23.0 E	S
Top of Uppermost Producing Zone	2535 FNL 2520 FEL	SWNE	5	10.0 S	23.0 E	S
At Total Depth	2535 FNL 2520 FEL	SWNE	5	10.0 S	23.0 E	S

21. COUNTY: UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet): 2520	23. NUMBER OF ACRES IN DRILLING UNIT: 321
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed): 400	26. PROPOSED DEPTH: MD: 8686 TVD: 8490
27. ELEVATION - GROUND LEVEL: 5319	28. BOND NUMBER: WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE: Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

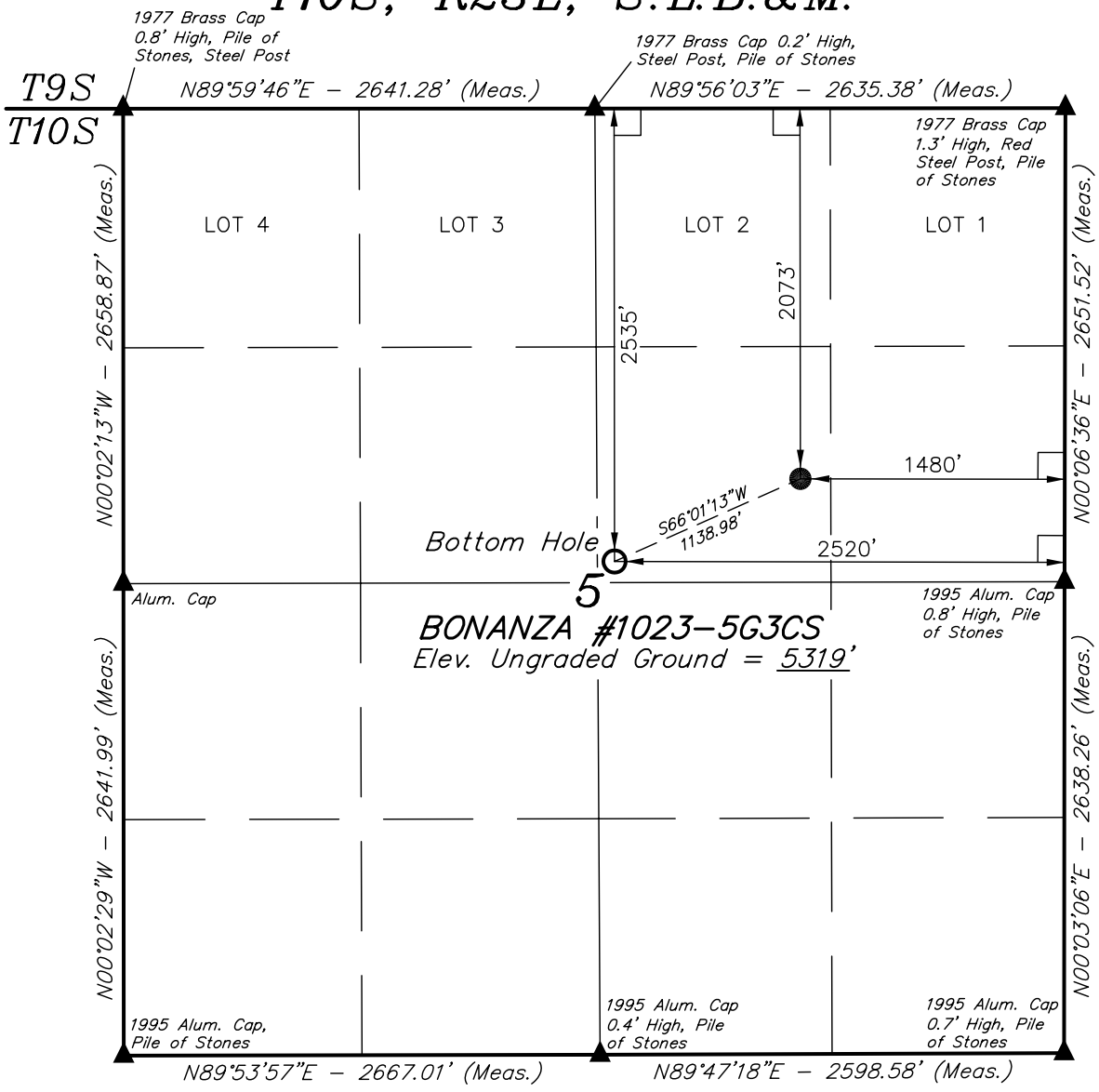
NAME: Danielle Piernot	TITLE: Regulatory Analyst	PHONE: 720 929-6156
SIGNATURE	DATE: 06/09/2009	EMAIL: danielle.piernot@anadarko.com

API NUMBER ASSIGNED	APPROVAL
43047504890000	Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	8686		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 LT&C	8686	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	2250		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	2250	36.0			

T10S, R23E, S.L.B.&M.



Kerr–McGee Oil & Gas Onshore LP

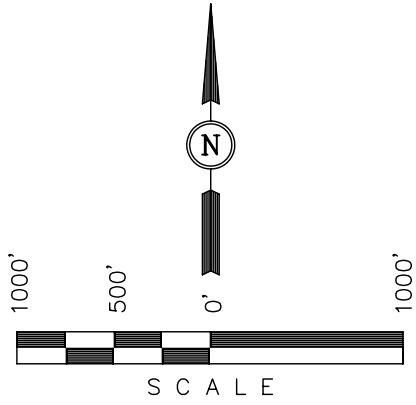
Well location, BONANZA #1023–5G3CS, located as shown in the SW 1/4 NE 1/4 of Section 5, T10S, R23E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 58 EAM (1965) LOCATED IN THE NE 1/4 OF SECTION 30, T9S, R23E, S.L.B.&M. TAKEN FROM THE RED WASH SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5132 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 12-23-08 S.P.

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

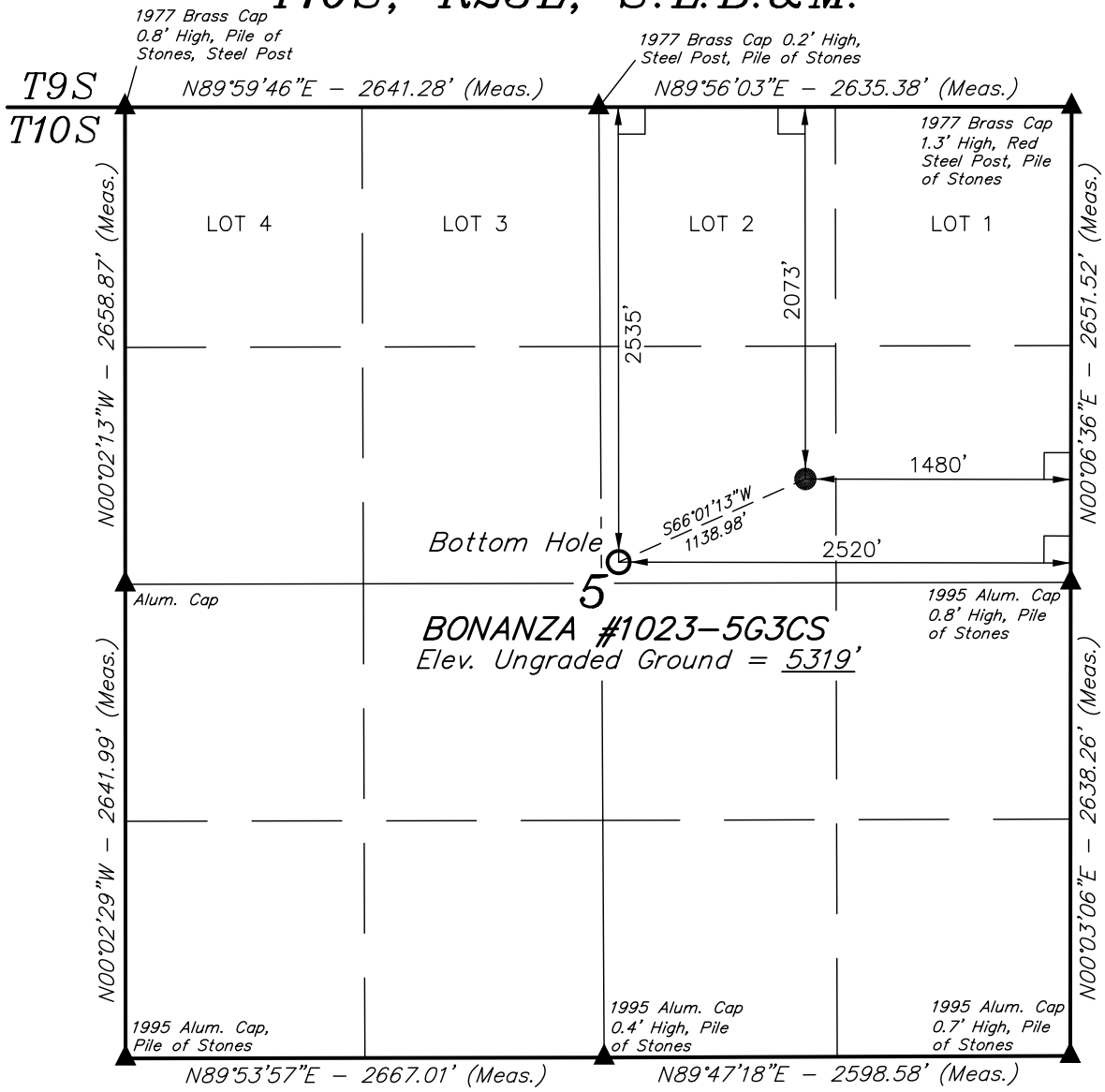
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°58'41.83" (39.978286)	LATITUDE = 39°58'46.40" (39.979556)
LONGITUDE = 109°21'01.13" (109.350314)	LONGITUDE = 109°20'47.76" (109.346600)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°58'41.95" (39.978319)	LATITUDE = 39°58'46.52" (39.979589)
LONGITUDE = 109°20'58.69" (109.349636)	LONGITUDE = 109°20'45.32" (109.345922)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	10-15-08	10-29-08
PARTY	**REFERENCES**	
B.B. D.S. C.C.	G.L.O. PLAT	
WEATHER	**FILE**	
COOL	Kerr–McGee Oil & Gas Onshore LP	

'API Well No: 43047504890000'

T10S, R23E, S.L.B.&M.



Kerr-McGee Oil & Gas Onshore LP

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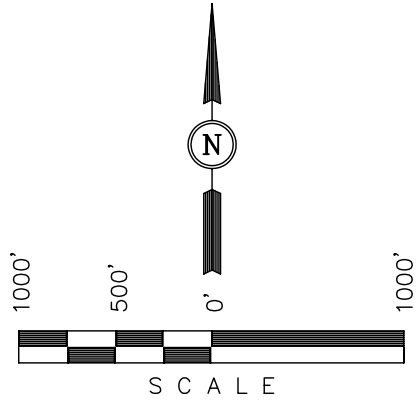

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UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
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SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	10-15-08	10-29-08
PARTY	**REFERENCES**	
B.B. D.S. C.C.	G.L.O. PLAT	
WEATHER	**FILE**	
COOL	Kerr-McGee Oil & Gas Onshore LP	

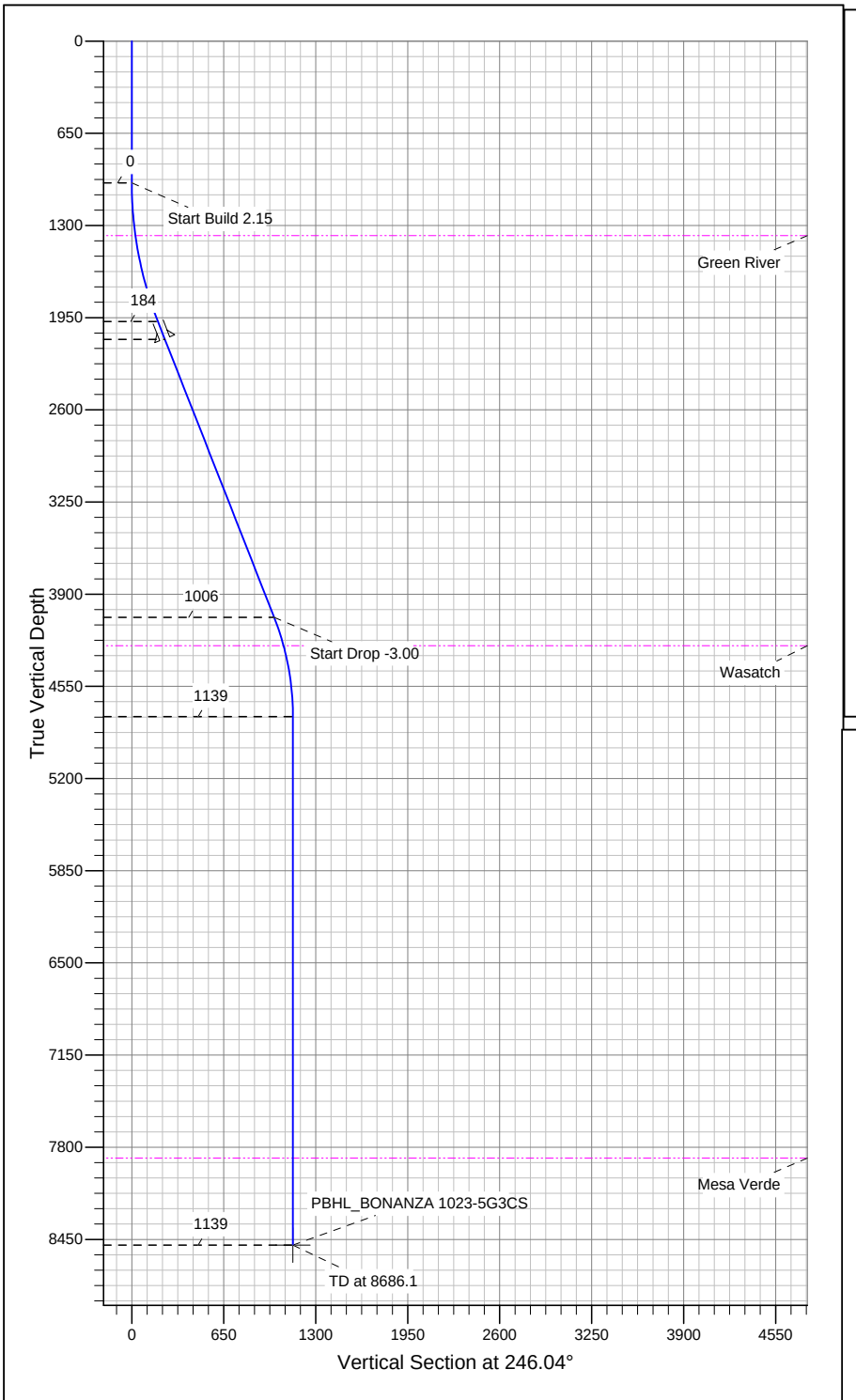
'API Well No: 43047504890000'

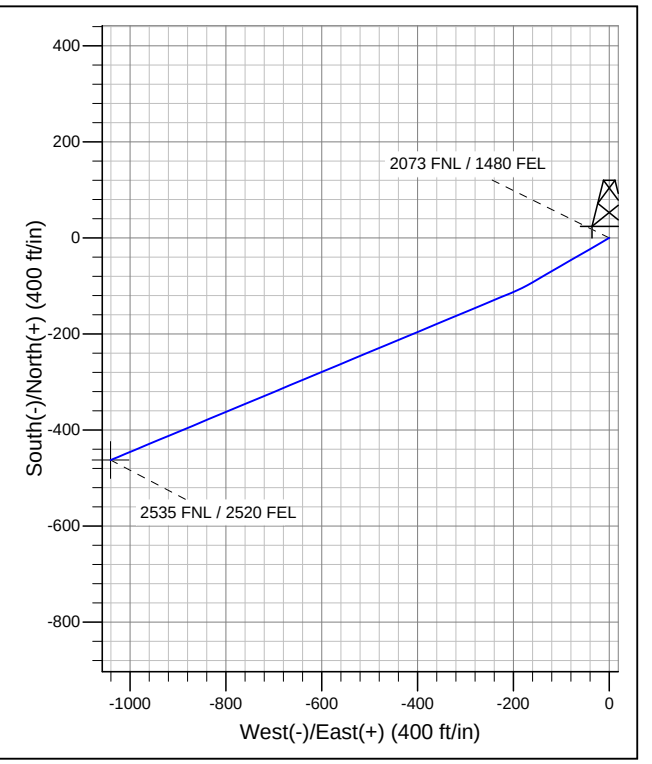
'APIWellNo:43047504890000'

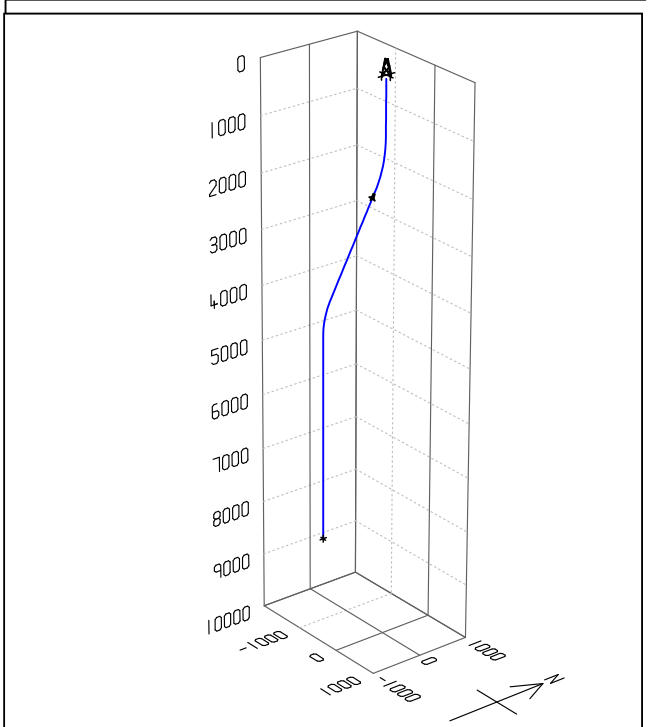
Anadarko Petroleum Corporation

Well Name: P_BONANZA 1023-5G3CS
Surface Location: UINTAH_BONANZA 1023-5G PAD
NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
UTAH - UTM (feet), NAD27, Zone 12N
Ground Elevation: 5319.0

Northing	Easting	Latitude	Longitude
14522910.35	2103804.20	39.979589°N	109.345922°W

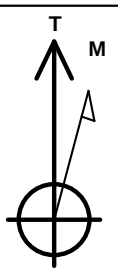






SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
3	2000.0	21.50	240.00	1976.7	-92.7	-160.6	2.15	240.00	184.4
4	2135.5	21.50	247.40	2102.8	-114.7	-205.0	2.00	93.36	233.9
5	4242.3	21.50	247.40	4062.9	-411.5	-918.0	0.00	0.00	1006.0
6	4959.1	0.00	0.00	4763.0	-462.5	-1040.7	3.00	180.00	1138.9
7	8686.1	0.00	0.00	8490.0	-462.5	-1040.7	0.00	0.00	1138.9



Azimuths to True North
Magnetic North: 11.27°

Magnetic Field
Strength: 52579.0snT
Dip Angle: 65.94°
Date: 4/15/2009
Model: IGRF200510

ROCKIES - PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_BONANZA 1023-5G PAD
P_BONANZA 1023-5G3CS
P_BONANZA 1023-5G3CS

Plan: Plan #1 04-15-09 ZJRA6

Standard Planning Report - Geographic

21 May, 2009

APC

Planning Report - Geographic

Database:	apc_edmp	**Local Co-ordinate Reference:**	Well P_BONANZA 1023-5G3CS
Company:	ROCKIES - PLANNING	**TVD Reference:**	WELL @ 5319.0ft (Original Well Elev)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	WELL @ 5319.0ft (Original Well Elev)
Site:	UINTAH_BONANZA 1023-5G PAD	**North Reference:**	True
Well:	P_BONANZA 1023-5G3CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_BONANZA 1023-5G3CS		
Design:	Plan #1 04-15-09 ZJRA6		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_BONANZA 1023-5G PAD

Site Position:		**Northing:**	14,522,930.71 ft	**Latitude:**	39.979642°N
From:	Lat/Long	**Easting:**	2,103,860.72 ft	**Longitude:**	109.345719°W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	1.06 °

Well P_BONANZA 1023-5G3CS

Well Position	**+N/-S**	0.0 ft	**Northing:**	14,522,910.35 ft	**Latitude:**	39.979589°N
	+E/-W	0.0 ft	**Easting:**	2,103,804.20 ft	**Longitude:**	109.345922°W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,319.0 ft

Wellbore P_BONANZA 1023-5G3CS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/15/2009	11.27	65.94	52,579

Design Plan #1 04-15-09 ZJRA6

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	246.04

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	21.50	240.00	1,976.7	-92.7	-160.6	2.15	2.15	0.00	240.00	
2,135.5	21.50	247.40	2,102.8	-114.7	-205.0	2.00	0.00	5.46	93.36	
4,242.3	21.50	247.40	4,062.9	-411.5	-918.0	0.00	0.00	0.00	0.00	
4,959.1	0.00	0.00	4,763.0	-462.5	-1,040.7	3.00	-3.00	0.00	180.00	
8,686.1	0.00	0.00	8,490.0	-462.5	-1,040.7	0.00	0.00	0.00	0.00	PBHL_BONANZA 1

APC

Planning Report - Geographic

Database:	apc_edmp	**Local Co-ordinate Reference:**	Well P_BONANZA 1023-5G3CS
Company:	ROCKIES - PLANNING	**TVD Reference:**	WELL @ 5319.0ft (Original Well Elev)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	WELL @ 5319.0ft (Original Well Elev)
Site:	UINTAH_BONANZA 1023-5G PAD	**North Reference:**	True
Well:	P_BONANZA 1023-5G3CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_BONANZA 1023-5G3CS		
Design:	Plan #1 04-15-09 ZJRA6		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	14,522,910.35	2,103,804.20	39.979589°N	109.345922°W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	14,522,910.35	2,103,804.20	39.979589°N	109.345922°W
1,372.2	8.00	240.00	1,371.0	-13.0	-22.5	14,522,896.96	2,103,781.97	39.979553°N	109.346002°W
Green River									
2,000.0	21.50	240.00	1,976.7	-92.7	-160.6	14,522,814.67	2,103,645.36	39.979334°N	109.346495°W
2,132.5	21.50	247.23	2,100.0	-114.3	-204.0	14,522,792.33	2,103,602.34	39.979275°N	109.346650°W
Surface Casing									
2,135.5	21.50	247.40	2,102.8	-114.7	-205.0	14,522,791.88	2,103,601.32	39.979274°N	109.346654°W
4,242.3	21.50	247.40	4,062.9	-411.5	-918.0	14,522,481.94	2,102,894.00	39.978459°N	109.349198°W
4,453.2	15.18	247.40	4,263.0	-436.9	-979.2	14,522,455.32	2,102,833.25	39.978389°N	109.349417°W
Wasatch									
4,959.1	0.00	0.00	4,763.0	-462.5	-1,040.7	14,522,428.58	2,102,772.24	39.978319°N	109.349636°W
8,072.1	0.00	0.00	7,876.0	-462.5	-1,040.7	14,522,428.58	2,102,772.24	39.978319°N	109.349636°W
Mesa Verde									
8,686.1	0.00	0.00	8,490.0	-462.5	-1,040.7	14,522,428.58	2,102,772.24	39.978319°N	109.349636°W

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_BONANZA 10 - plan hits target center - Point	0.00	0.00	8,490.0	-462.5	-1,040.7	14,522,428.58	2,102,772.24	39.978319°N	109.349636°W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,132.5	2,100.0	Surface Casing	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,372.2	1,371.0	Green River		0.00	
4,453.2	4,263.0	Wasatch		0.00	
8,072.1	7,876.0	Mesa Verde		0.00	

Bonanza 1023-5G3CS

Pad: Bonanza 1023-5G
Surface: 2,073' FNL, 1,480' FEL (SW/4NE/4)
BHL: 2,535' FNL 2,520' FEL (SW/4NE/4)
Sec. 5 T10S R23E

Uintah, Utah
Mineral Lease: UTU 33433

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. Estimated Tops of Important Geologic Markers:
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 – Surface	
Green River	1,371'	
Birds Nest	1,550'	Water
Mahogany	2,044'	Water
Wasatch	4,262'	Gas
Mesaverde	6,330'	Gas
MVU2	7,338'	Gas
MVL1	7,874'	Gas
TVD	8,490'	
TD	8,686'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 8,686' TD, approximately equals 5,141 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,157 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

'APIWellNo:43047504890000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 9, 2009	
WELL NAME	**Bonanza 1023-5G3CS**		TD	8,490' TVD	8,686' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,319'
SURFACE LOCATION	SW/4 NE/4 2,073' FNL	1,480' FEL	Sec 5	T 10S	R 23E
	Latitude: 39.979556	Longitude: -109.346600		NAD 83	
BTM HOLE LOCATION	SW/4 NE/4 2,535' FNL	2,520' FEL	Sec 5	T 10S	R 23E
	Latitude: 39.978286	Longitude: -109.350314		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		20'	14"		
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @ 1,371'

Top of Birds Nest @ 1,550

Mahogany @ 2,044

Preset f/ GL @ 2,250' MD

Note: 12.25" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @ 4,262'

Mud logging program TBD

Cased hole logging program from TD - surf csg

7-7/8"	4-1/2" 11.6# I-80 or equivalent LTC csg	Water / Fresh Water Mud 8.3-11.6 ppg	

Mverde @ 6,330' TVD

MVU2 @ 7,338' TVD

MVU1 @ 7,874' TVD

Max anticipated Mud required 11.6 ppg

TD @ 8,490' TVD 8,686' MD

'APIWellNo:43047504890000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,250	36.00	J-55	LTC	1.06	1.92	7.12
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,686	11.60	I-80	LTC	2.39	1.24	2.29

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,157 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,141 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,750'	65/35 Poz + 6% Gel + 10 pps gilsonite	410	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,756'	Premium Lite II + 3% KCl + 0.25 pps	360	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,930'	50/50 Poz/G + 10% salt + 2% gel	1,210	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

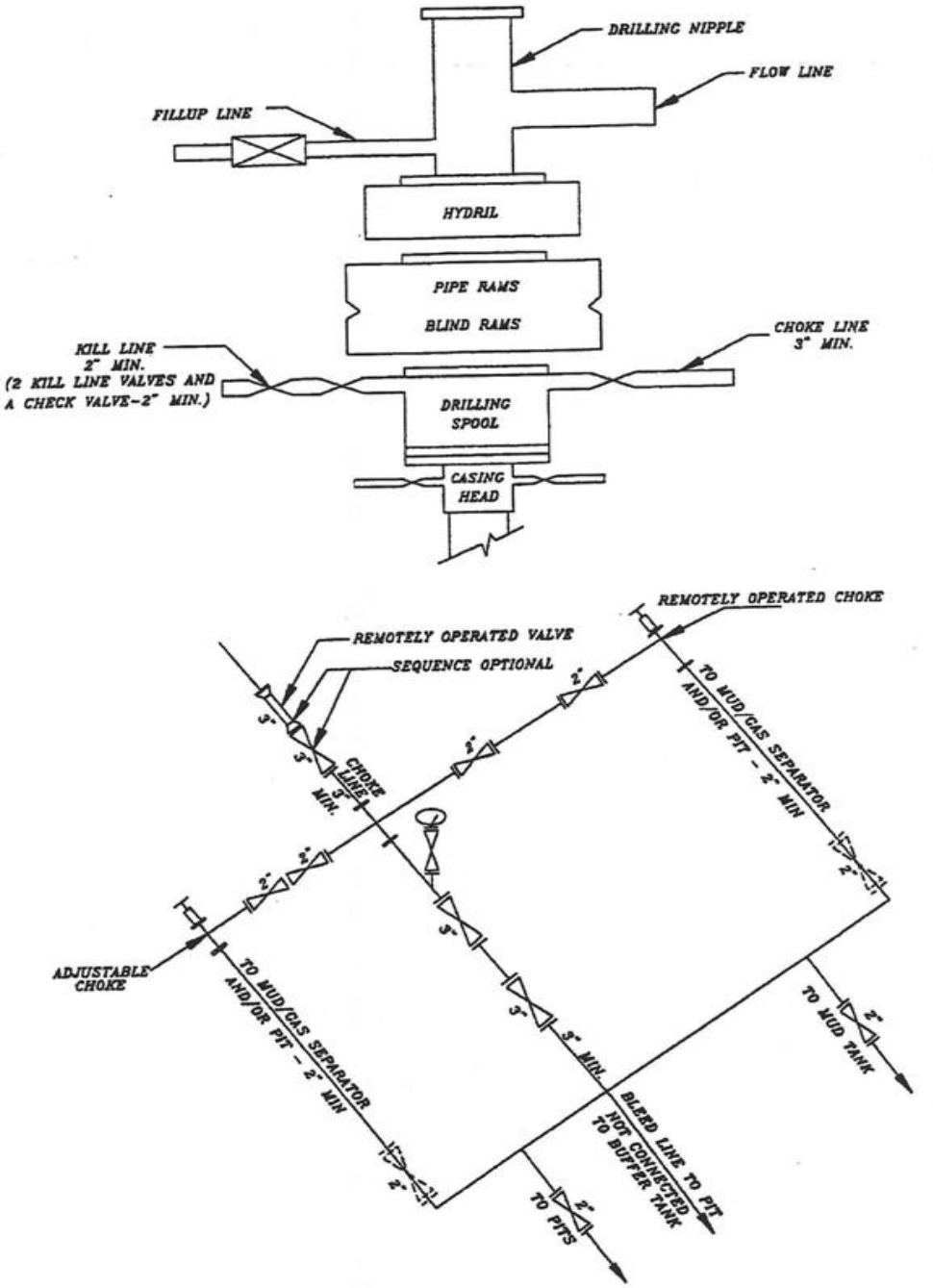
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

'APIWellNo:43047504890000'

EXHIBIT A
Bonanza 1023-5G3CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

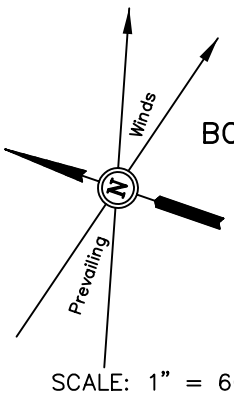
'APIWellNo:43047504890000'

Kerr–McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR

BONANZA #1023–5G2AS, #1023–5G2CS, #1023–5G3BS & #1023–5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4



SCALE: 1" = 60'
DATE: 10–29–08
Drawn By: C.C.
REVISED: 12–23–08 S.P.
REVISED: 02–05–09 C.C.

Existing Well Head Bonanza #1023–5G
NAD 83 (SURFACE LOCATION)
Latitude =39°58'46.61" (39.979614)
Longitude=109°20'48.38" (109.346772)
NAD 27 (SURFACE LOCATION)
Latitude = 39°58'46.73" (39.979647)
Longitude=109°20'45.94" (109.346094)

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

F–9.8' El. 309.3'
F–1.2' El. 317.9'
C–1.3' El. 320.4'
C–6.4' El. 315.5' (btm. pit)
C–1.8' El. 320.9'
C–6.5' El. 315.6' (btm. pit)
F–1.3' El. 317.8'
F–0.3' El. 318.8'
C–0.6' El. 319.7'
C–0.1' El. 319.2'
C–0.3' El. 319.4'
GRADE El. 319.1'

Sta. 5+00
Sta. 2+50
Sta. 1+00
Sta. 0+00

Approx. Top of Cut Slope
Existing Access Road
Approx. Toe of Fill Slope
Round Corners as Needed
Existing Pad
Existing 4" Pipeline
Existing 4" Pipeline

80'
240'
250'
160'
100'
60'
190'
20'
10'

DATA
CATWALK
PIPE RACKS
FLARE PIT
15' WIDE BENCH
RIG
DOG HOUSE
Anchor
RESERVE PITS (10' Deep)
Total Pit Capacity W/2' of Freeboard = 26,140 Bbls.± Total Pit Volume = 7,090 Cu. Yds
MUD TANKS
PUMP
MUD SHED
HOPPER
POWER
TOOLS
FUEL
TRAILER
TOILET
FUEL
STORAGE TANK
TRASH
Existing Well Head Bonanza #1023–5G
#1023–5G2AS
#1023–5G2CS
#1023–5G3BS
#1023–5G3CS
Reserve Pit Backfill & Spoils Stockpile
Topsoil Stockpile
15' WIDE BENCH/DIKE
SLOPE 1 1/2 : 1
N50°01'03"W 868.44' (To Bottom Hole)
N71°07'55"W 1064.10' (To Bottom Hole)
S86°18'15"W 1156.13' (To Bottom Hole)
S66°01'13"W 1138.98' (To Bottom Hole)
52.55'
156.14472

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

Elev. Ungraded Ground at #1023–5G2AS Location Stake = 5319.4'
Elev. Graded Ground at #1023–5G2AS Location Stake = 5319.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789–1017

'APIWellNo:43047504890000'

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

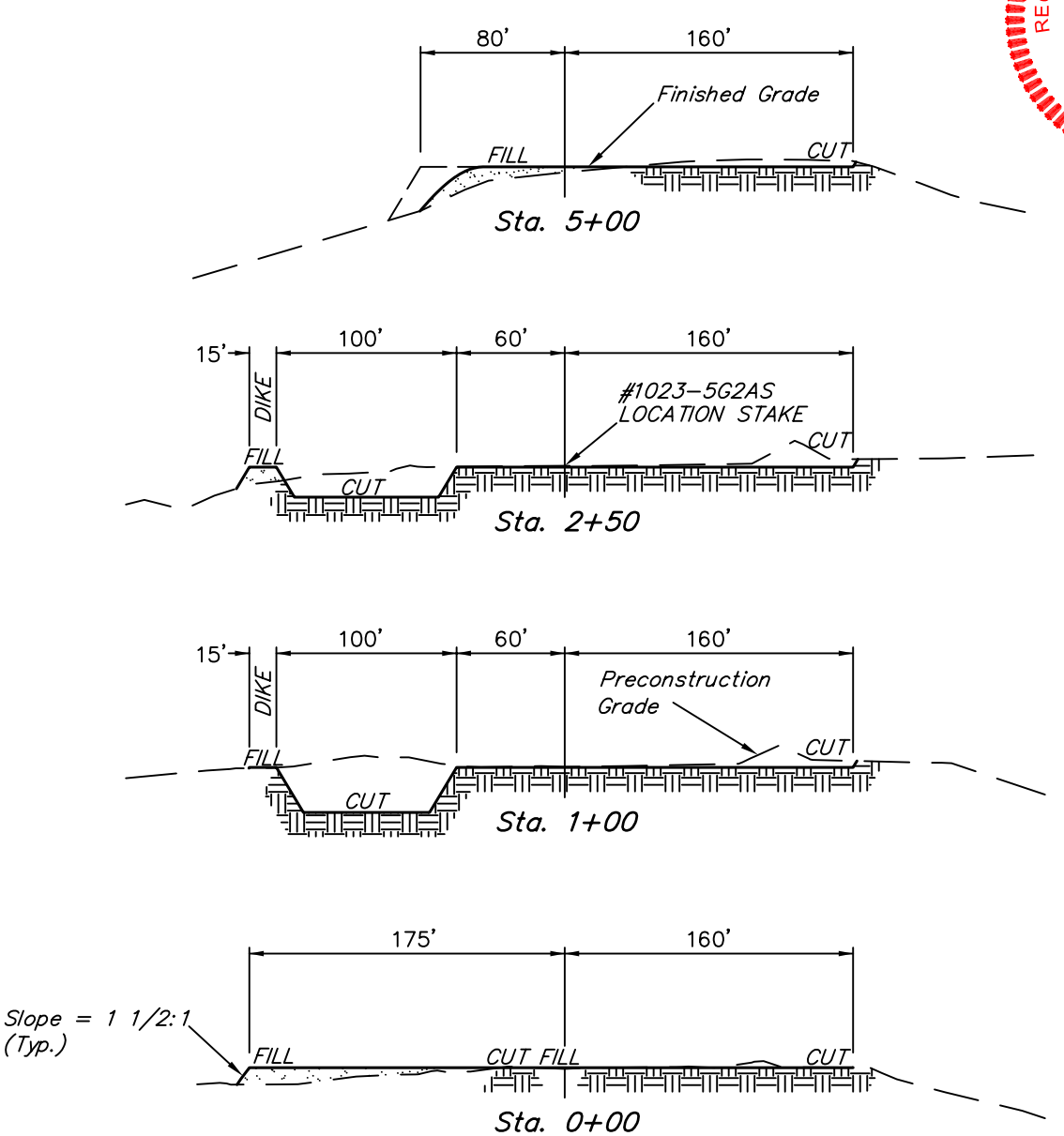
TYPICAL CROSS SECTIONS FOR

BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4

1" = 40'
X-Section Scale
1" = 100'

DATE: 10-29-08
Drawn By: S.P.
REVISED: 12-23-08 S.P.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



APPROXIMATE ACREAGES

EXISTING WELL SITE DISTURBANCE = ± 1.400 ACRES
PROPOSED WELL SITE DISTURBANCE = ± 2.762 ACRES
PIPELINE DISTURBANCE = ± 0.519 ACRES
TOTAL = ± 4.681 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping (New Construction Only) = 1,740 Cu. Yds.
Remaining Location = 8,810 Cu. Yds.

TOTAL CUT = 10,550 CU.YDS.
FILL = 2,270 CU.YDS.

EXCESS MATERIAL = 8,280 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,290 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 2,990 Cu. Yds.

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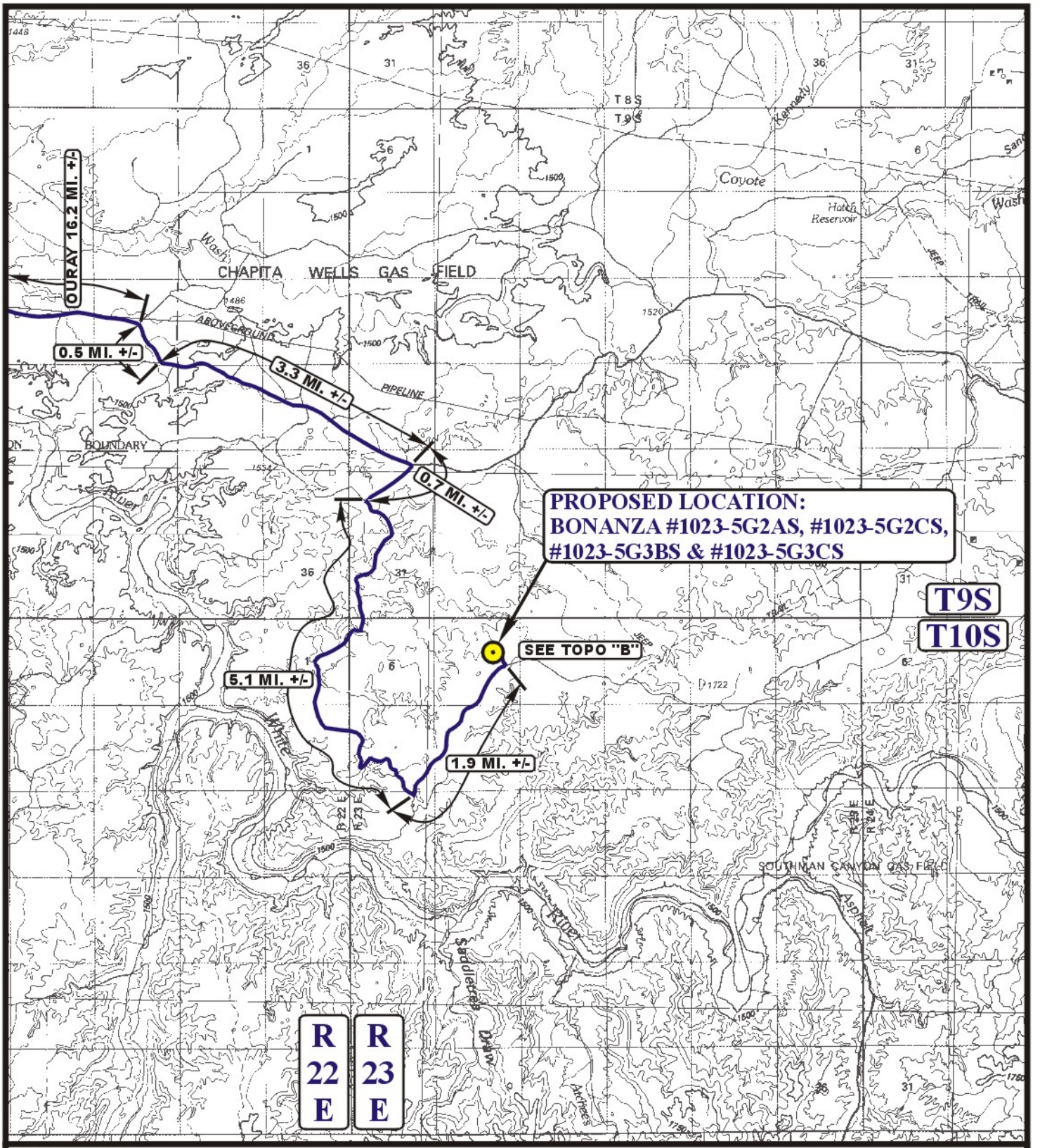
’APIWellNo:43047504890000’



LEGEND:

PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4

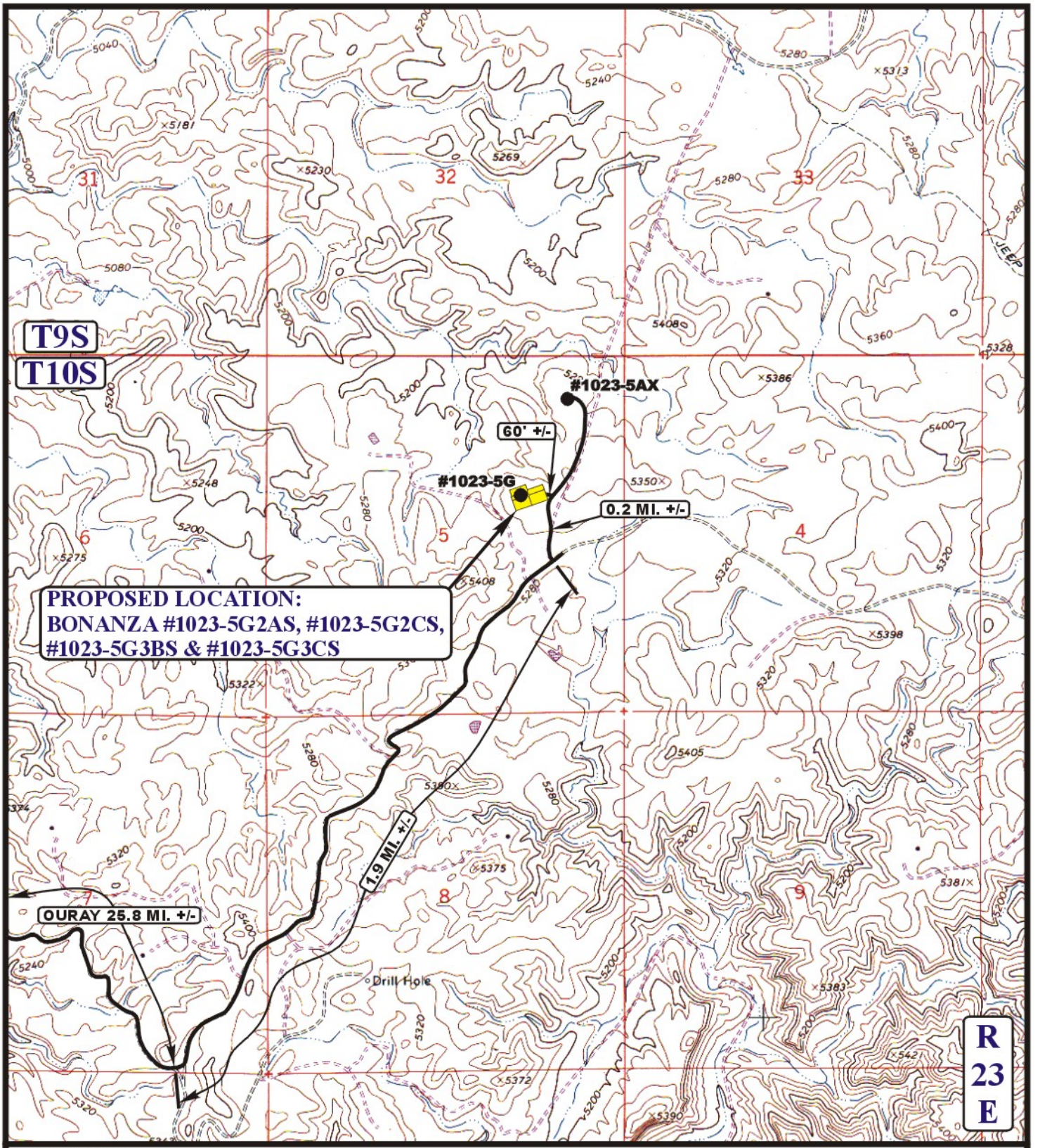
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 10 MONTH | 13 DAY | 04 YEAR

SCALE: 1:100,000 | DRAWN BY: P.M. | REV: 12-24-08 J.J.

A TOPO

’APIWellNo:43047504890000’



LEGEND:

EXISTING ROAD

N

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4

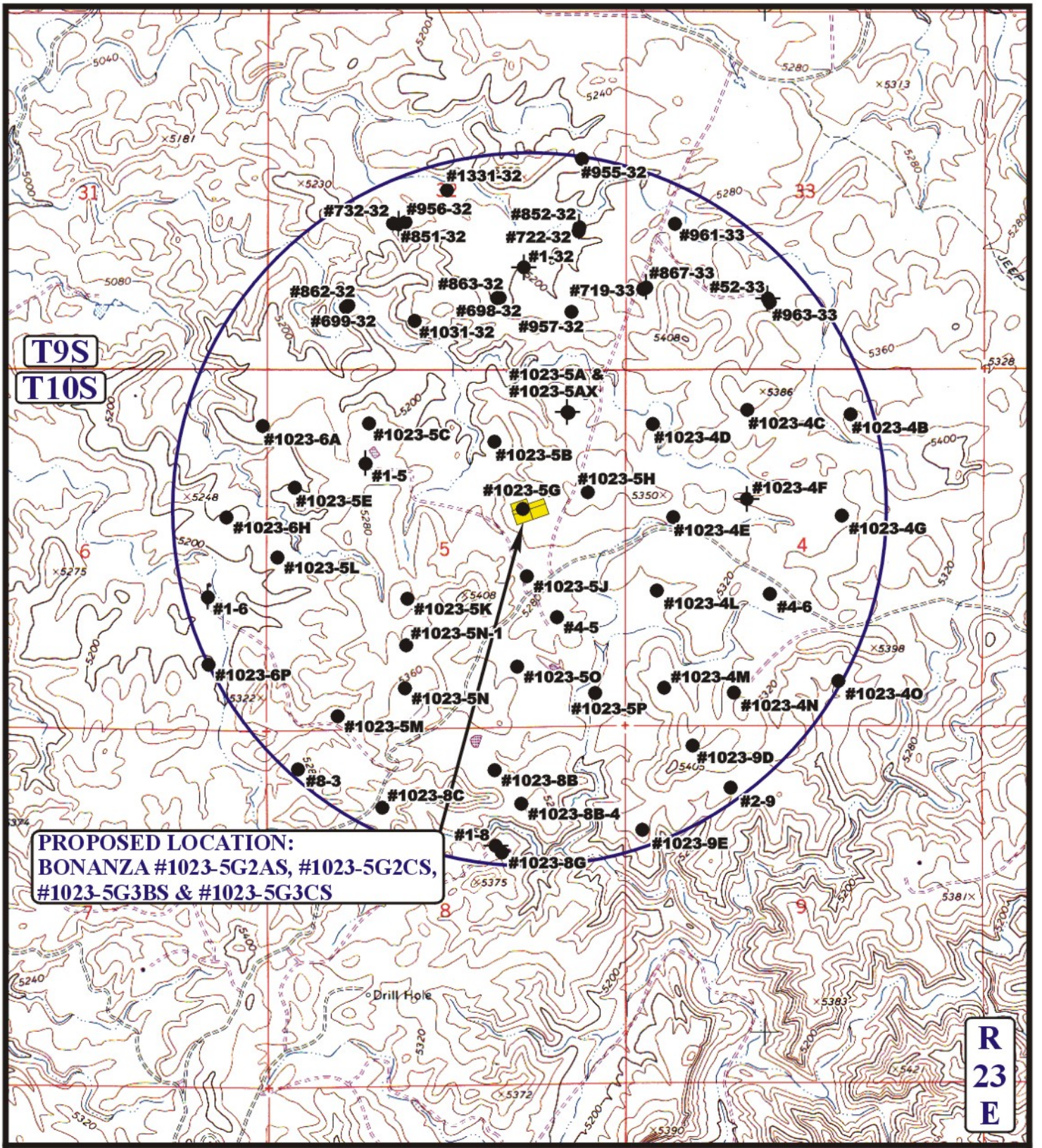
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 10 MONTH | 13 DAY | 04 YEAR

SCALE: 1" = 2000' | DRAWN BY: P.M. | REV: 12-24-08 J.J.

B TOPO

’APIWellNo:43047504890000’



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4

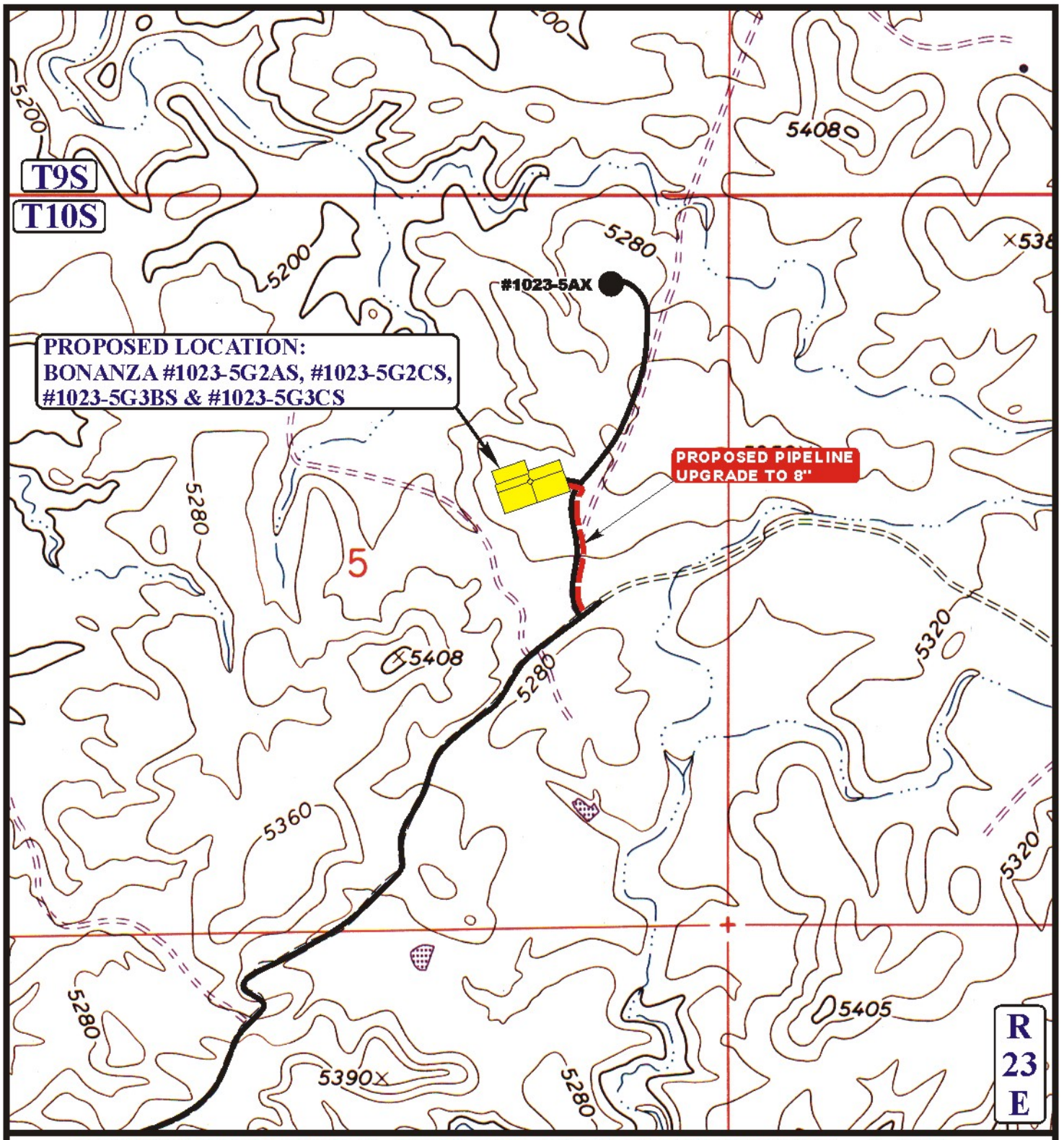
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 10 MONTH | 13 DAY | 04 YEAR

SCALE: 1" = 2000' | DRAWN BY: P.M. | REV: 12-24-08 J.J.

C TOPO

’APIWellNo:43047504890000’



APPROXIMATE TOTAL PIPELINE UPGRADE DISTANCE = 1,029' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE UPGRADE TO 6"

N

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-G2CS,
#1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.
SW 1/4 NE 1/4

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	10 MONTH	13 DAY	04 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: P.M.	REV: 02-05-09 C.C.		

Kerr-McGee Oil & Gas Onshore LP

BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS

LOCATED IN UINTAH COUNTY, UTAH
SECTION 5, T10S, R23E, S.L.B.&M.

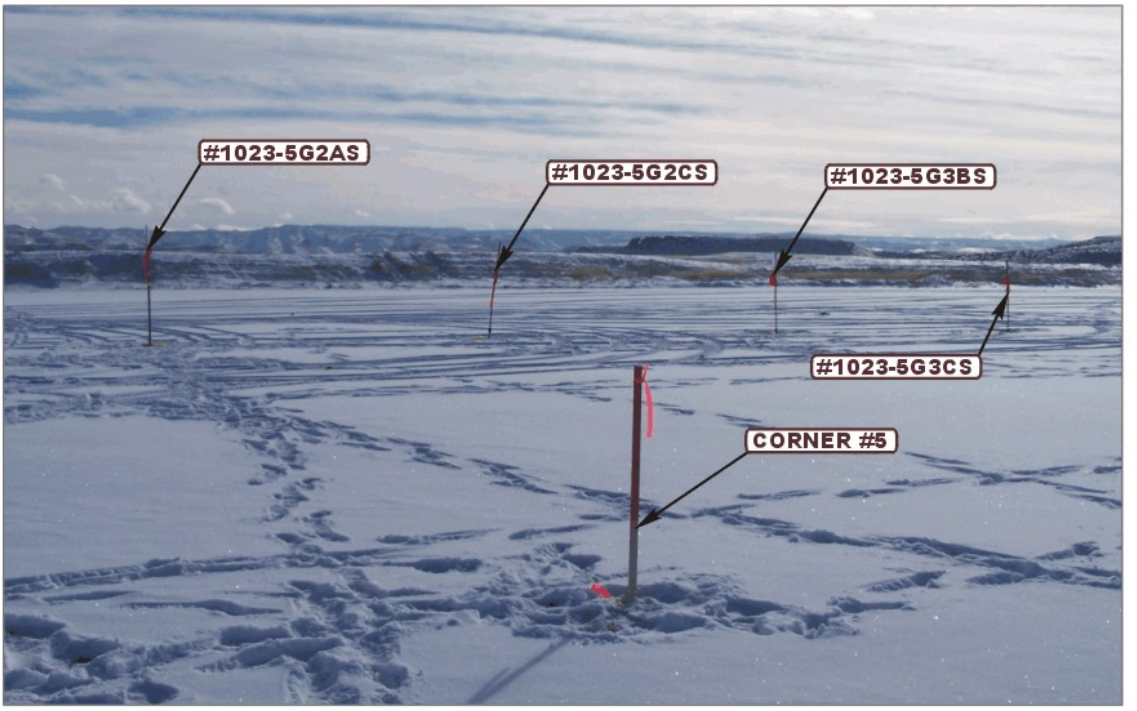


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE — CAMERA ANGLE: SOUTHERLY

PHOTO: VIEW OF EXISTING ACCESS — CAMERA ANGLE: NORTHWESTERLY

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS	10 MONTH	13 DAY	04 YEAR	PHOTO
TAKEN BY: D.K.	DRAWN BY: P.M.	REV: 12-24-08 J.J.		

Kerr-McGee Oil & Gas Onshore LP
BONANZA #1023-5G2AS, #1023-5G2CS, #1023-5G3BS & #1023-5G3CS
SECTION 5, T10S, R23E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRCTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 60’ TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.9 MILES.

Bonanza 1023-5G2AS
Surface: 2,054' FNL, 1,424' FEL (SW/4NE/4)
BHL: 1,495' FNL 2,090' FEL (SW/4NE/4)

Bonanza 1023-5G2CS
Surface: 2,060' FNL, 1,442' FEL (SW/4NE/4)
BHL: 1,715' FNL 2,450' FEL (SW/4NE/4)

Bonanza 1023-5G3BS
Surface: 2,067' FNL, 1,461' FEL (SW/4NE/4)
BHL: 2,140' FNL 2,615' FEL (SW/4NE/4)

Bonanza 1023-5G3CS
Surface: 2,073' FNL, 1,480' FEL (SW/4NE/4)
BHL: 2,535' FNL 2,520' FEL (SW/4NE/4)

Pad: Bonanza 1023-5G
Sec. 5 T10S R23E

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted in January, 2009 showing the surface locations in SW/4 NE/4 of Section 5 T10S R23E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BLM-Vernal Field Office.

An on-site meeting was held on February 3, 2009. Present were:

- Verlyn Pindell, Dave Gordon, Scott Ackerman, Karl Wright – BLM;
- David Kay – Uintah Engineering & Land Surveying;
- Kolby Kay – 609 Consulting, LLC
- Tony Kazeck, Clay Einerson, Raleen White, Ramey Hoopes, Grizz Oleen, Charles Chase and Spencer Biddle – Kerr-McGee.

Directional Drilling:
In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

A) Refer to Topo Map A for directions to the location.
B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.
C) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

See MDP for additional details on road construction.
No new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.
Approximately ±1,029' of existing 4" pipeline needs to be upgraded to 8". Refer to Topo D for the existing pipeline. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, Application number 53617. Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:
See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)
See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:
See MDP for additional details on Plans for Reclamation of the Surface.

11. Surface/Mineral Ownership:
United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Other Information:
See MDP for additional details on Other Information.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720-929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

Danielle Piernot

June 8, 2009
Date

’APIWellNo:43047504890000’

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS ONSHORE LP’S 43 PROPOSED WELL LOCATIONS (T10S, R23E, SECTIONS 5, 6, 7, 8, AND 10) UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-331

February 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

IPC #09-56

Paleontological Reconnaissance Survey Report

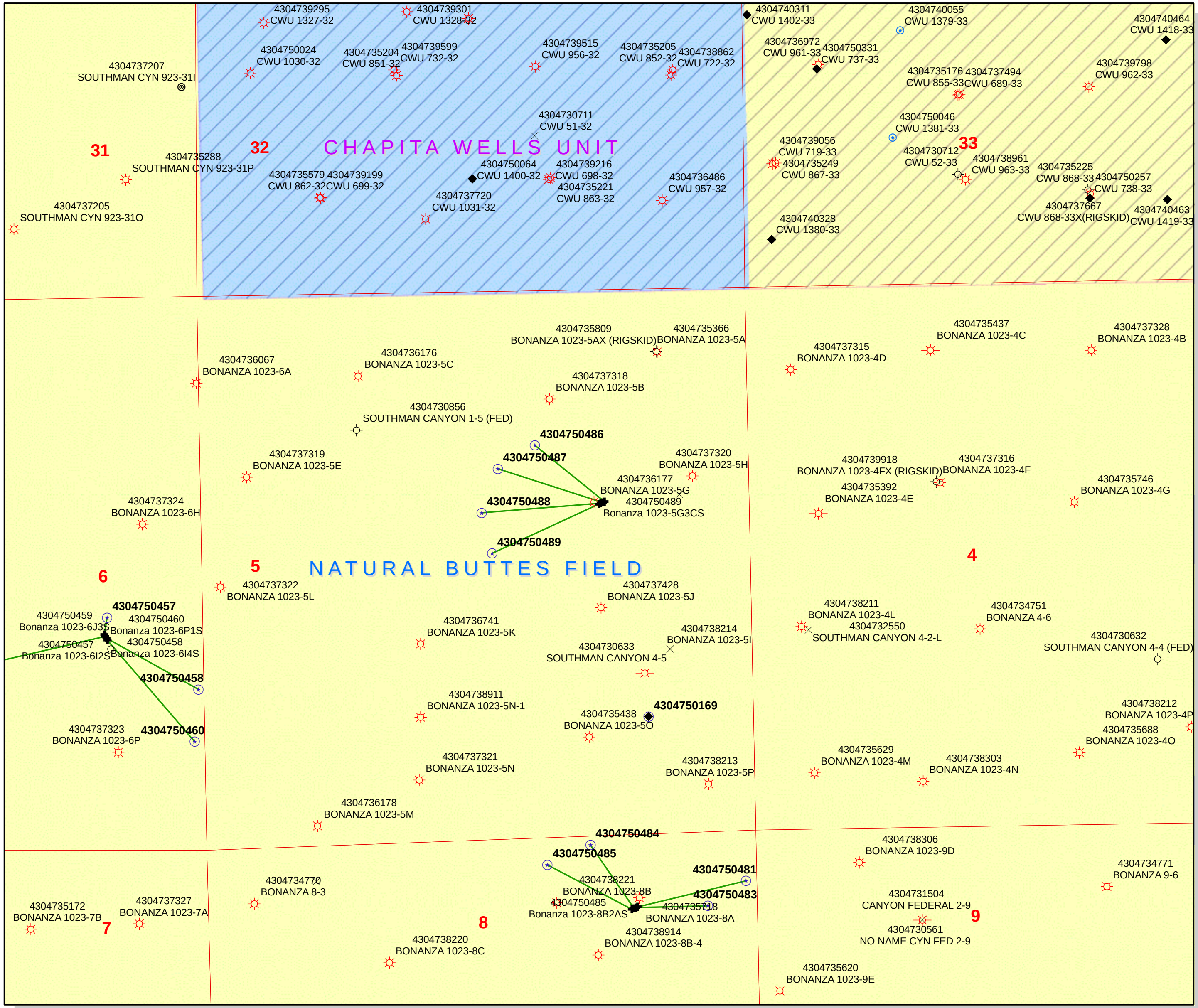
Survey of Kerr McGee's Proposed Onsite Changes "Bonanza #1023-5G2AS, G2CS, G3BS & G3CS and #1023-6P1S, I4S, J3S & I2S" (Sec. 5 & 6, T 10 S, R 23 E)

Asphalt Wash
Topographic Quadrangle
Uintah County, Utah

March 25, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

'APIWellNo:43047504890000'


CHAPITA WELLS UNIT
NATURAL BUTTES FIELD
31
32
33
6
5
4
7
8
9
4304739295 CWU 1327-32
4304739301 CWU 1328-32
4304740311 CWU 1402-33
4304740055 CWU 1379-33
4304740464 CWU 1418-33
4304737207 SOUTHMAN CYN 923-31I
4304750024 CWU 1030-32
4304735204 CWU 851-32
4304739599 CWU 732-32
4304739515 CWU 956-32
4304735205 CWU 852-32
4304738862 CWU 722-32
4304736972 CWU 961-33
4304750331 CWU 737-33
4304735176 CWU 855-33
4304737494 CWU 689-33
4304739798 CWU 962-33
4304730711 CWU 51-32
4304750046 CWU 1381-33
4304735288 SOUTHMAN CYN 923-31P
4304735579 CWU 862-32
4304739199 CWU 699-32
4304750064 CWU 1400-32
4304739216 CWU 698-32
4304735221 CWU 863-32
4304736486 CWU 957-32
4304739056 CWU 719-33
4304735249 CWU 867-33
4304730712 CWU 52-33
4304738961 CWU 963-33
4304735225 CWU 868-33
4304750257 CWU 738-33
4304737205 SOUTHMAN CYN 923-31O
4304737720 CWU 1031-32
4304740328 CWU 1380-33
4304737667 CWU 868-33X(RIGSKID)
4304740463 CWU 1419-33
4304735809 BONANZA 1023-5AX (RIGSKID)
4304735366 BONANZA 1023-5A
4304735437 BONANZA 1023-4C
4304737328 BONANZA 1023-4B
4304736067 BONANZA 1023-6A
4304736176 BONANZA 1023-5C
4304737315 BONANZA 1023-4D
4304737318 BONANZA 1023-5B
4304730856 SOUTHMAN CANYON 1-5 (FED)
4304750486
4304750487
4304737319 BONANZA 1023-5E
4304737320 BONANZA 1023-5H
4304739918 BONANZA 1023-4FX (RIGSKID)
4304737316 BONANZA 1023-4F
4304736177 BONANZA 1023-5G
4304750488
4304750489 Bonanza 1023-5G3CS
4304735392 BONANZA 1023-4E
4304735746 BONANZA 1023-4G
4304737324 BONANZA 1023-6H
4304750489
4304737322 BONANZA 1023-5L
4304737428 BONANZA 1023-5J
4304750457
4304750459 Bonanza 1023-6J3S
4304750460 Bonanza 1023-6P1S
4304750457 Bonanza 1023-6I2S
4304750458 Bonanza 1023-6I4S
4304736741 BONANZA 1023-5K
4304738211 BONANZA 1023-4L
4304732550 SOUTHMAN CANYON 4-2-L
4304734751 BONANZA 4-6
4304738214 BONANZA 1023-5I
4304730633 SOUTHMAN CANYON 4-5
4304730632 SOUTHMAN CANYON 4-4 (FED)
4304750458
4304738911 BONANZA 1023-5N-1
4304735438 BONANZA 1023-5O
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4304738212 BONANZA 1023-4P
4304737323 BONANZA 1023-6P
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4304738213 BONANZA 1023-5P
4304735629 BONANZA 1023-4M
4304738303 BONANZA 1023-4N
4304736178 BONANZA 1023-5M
4304750484
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4304738306 BONANZA 1023-9D
4304734770 BONANZA 8-3
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4304750483
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4304737327 BONANZA 1023-7A
4304750485 Bonanza 1023-8B2AS
4304735718 BONANZA 1023-8A
4304731504 CANYON FEDERAL 2-9
4304730561 NO NAME CYN FED 2-9
4304738220 BONANZA 1023-8C
4304738914 BONANZA 1023-8B-4
4304735620 BONANZA 1023-9E

API Number: 4304750489

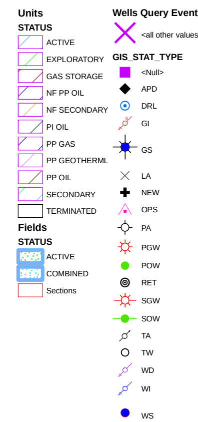
Well Name: Bonanza 1023-5G3CS

Township 10.0 S Range 23.0 E Section 5

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason


Units
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EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED
Fields
STATUS
ACTIVE
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NEW
OPS
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PGW
POW
RET
SGW
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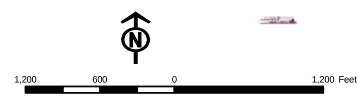
WS



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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/9/2009 **API NO. ASSIGNED:** 43047504890000

WELL NAME: Bonanza 1023-5G3CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWNE 5 100S 230E **Permit Tech Review:** ☑

SURFACE: 2073 FNL 1480 FEL **Engineering Review:** ☑

BOTTOM: 2535 FNL 2520 FEL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 39.97963 **LONGITUDE:** -109.34594

UTM SURF EASTINGS: 641240.00 **NORTHINGS:** 4426596.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 33433 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 179-14

Effective Date: 6/12/2008

Siting: 460' fr ext. drilling unit boundary

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Bonanza 1023-5G3CS
API Well Number: 43047504890000
Lease Number: UTU 33433
Surface Owner: FEDERAL
Approval Date: 6/17/2009

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14 . The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 179-14, completion into and commingling of production from the Wasatch and Mesaverde formations is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:
Notify the Division within 24 hours of spudding the well.

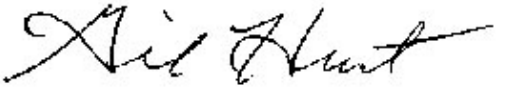
API Well No: 43047504890000

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.
- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED
JUN 10 2009
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU33433

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.
BONANZA 1023-5G3CS

2. Name of Operator
KERRMCGEE OIL&GAS ONSHORE LP
Contact: DANIELLE E PIERNOT
E-Mail: Danielle.Piernot@anadarko.com

9. API Well No.
43-047-50489

3a. Address
PO BOX 173779
DENVER, CO 80202-3779

3b. Phone No. (include area code)
Ph: 720-929-6156
Fx: 720-929-7156

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface SWNE 2073FNL 1480FEL 39.97956 N Lat, 109.34660 W Lon

At proposed prod. zone SWNE 2535FNL 2520FEL 39.97829 N Lat, 109.35031 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 5 T10S R23E Mer SLB

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 30 MILES SOUTHEAST OF OURAY, UTAH

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
2520 FEET

16. No. of Acres in Lease
1922.90

17. Spacing Unit dedicated to this well
321.18

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
APPROXIMATELY 400 FEET

19. Proposed Depth
8686 MD
8490 TVD

20. BLM/BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.
5319 GL

22. Approximate date work will start
06/30/2009

23. Estimated duration
60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
DANIELLE E PIERNOT Ph: 720-929-6156

Date
06/10/2009

Title
REGULATORY ANALYST

Approved by (Signature)
Stephanie J Howard

Name (Printed/Typed)
Stephanie J Howard

Date
12/4/09

Title
Acting Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

NOTICE OF APPROVAL

Electronic Submission #70745 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 06/10/2009 ()

RECEIVED
DEC 14 2009
DIV. OF OIL, GAS & MINING

UDOGM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

09SX0503A NOS: 01-30-2009

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore**	**Location:**	**SWNE, Sec. 5, T10S, R23E**
Well No:	**Bonanza 1023-5G3CS**	**Lease No:**	**UTU-33433**
API No:	**43-047-50489**	**Agreement:**	**N/A**

RECEIVED
DEC 14 2009
DIV. OF OIL, GAS & MINING

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved 2/5/2007. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 2/5/2012 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

- The following seed mix will be used for Interim Reclamation

Interim Reclamation seed mix

Ephraim crested wheatgrass	*Agropyron cristatum v. Epharim*	1 lbs. /acre
bottlebrush squirreltail	*Elymus elymoides*	1 lbs. /acre
Siberian wheatgrass	*Agropyron fragile*	1 lbs. /acre
western wheatgrass	*Agropyron smithii*	1 lbs. /acre
scarlet globemallow	*Spaeralcea coccinea*	1 lbs. /acre
shadscale	*Atriplex confertifolia*	2 lbs. /acre
fourwing saltbush	*Atriplex canescens*	2 lbs. /acre

Seed shall be applied with a rangeland drill, unless topography and /or rockiness precludes the use of equipment. See shall be applied between August 15 and ground freezing. All see rates are in terms of Pure Live Seed. Operator shall notify the Authorized Officer when seeding has commenced, and shall retain all seed tags.

- The existing topsoil pile will moved and added to the new topsoil pile.

- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticide Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.

- As agreed upon on the onsite the pit will be lined with double felt.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A formation integrity test shall be performed at the surface casing shoe.
- A Gama Ray Log shall be run from TD to surface.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L. P.**

Well Name: **BONANZA 1023-5G3CS**

Api No: **43-047-50489** Lease Type: **FEDERAL**

Section **05** Township **10S** Range **23E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **01/18/2010**

Time **8:30 AM**

How **DRY**

Drilling will Commence:

Reported by **JAMES GOBER**

Telephone # **(435) 828-7024**

Date **01/19//2010** **Signed** **CHD**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750489	BONANZA 1023-5G3CS		SWNE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	17460	1/18/2010			1/28/10	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 1/18/2010 AT 8:30 HRS. BHL = SWNE

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750488	BONANZA 1023-5G3BS		SWNE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	17461	1/18/2010			1/28/10	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 1/18/2010 AT 10:30 HRS. BHL = SWNE

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750487	BONANZA 1023-5G2CS		SWNE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	17462	1/18/2010			1/28/10	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 1/18/2010 AT 13:00 HRS. BHL = SWNE

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

RECEIVED
JAN 21 2010
DIV. OF OIL, GAS & MINING

ANDY LYTLE
Name (Please Print)

Signature

REGULATORY ANALYST
Title

1/21/2010
Date

(5/2000)

API Well No: 43047504890000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: Bonanza 1023-5G3CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047504890000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/25/2010	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Change surface csg dep

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) respectfully requests to change the surface casing depth on this well to approximately 300' below the Bird's Nest formation. This is the typical depth of surface casing for other wells in this area. The surface casing change will be FROM: 2,250' TO: 1,900'. Attached, please find the revised drilling program with relevant updated data for this depth of surface casing. Please contact the undersigned if you have questions and/or require additional information. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: January 25, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kathy Schneebeck-Dulnoan	720 929-6007	Staff Regulatory Analyst
SIGNATURE N/A		**DATE** 1/25/2010

RECEIVED January 25, 2010

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
UTU33433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
BONANZA 1023-5G3CS

2. Name of Operator
KERR-MCGEE OIL&GAS ONSHORE LP
Contact: KATHY SCHNEEBECK DULNOAN
EMail: kathy.schneebeckdulnoan@anadarko.com

9. API Well No.
43-047-50489

3a. Address
PO BOX 173779
DENVER, CO 80123

3b. Phone No. (include area code)
Ph: 720-929-6007
Fx: 720-929-7007

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 5 T10S R23E SWNE 2073FNL 1408FEL
39.97956 N Lat, 109.34660 W Lon

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) respectfully requests to change the surface casing depth on this well to approximately 300' below the Bird's Nest formation. This is the typical depth of surface casing for other wells in this area.

The surface casing change will be
FROM: 2,250'
TO: 1,900'

Attached, please find the revised drilling program with relevant updated data for this depth of surface casing.

Please contact the undersigned if you have questions and/or require additional information.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #80481 verified by the BLM Well Information System
For KERR-MCGEE OIL&GAS ONSHORE LP, sent to the Vernal

Name *(Printed/Typed)* KATHY SCHNEEBECK DULNOAN — Title STAFF REGULATORY ANALYST

Signature (Electronic Submission) — Date 01/22/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED January 25, 2010

Additional data for EC transaction #80481 that would not fit on the form

32. Additional remarks, continued

Thank you.

RECEIVED January 25, 2010

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	January 22, 2010
WELL NAME	**Bonanza 1023-5G3CS**			TD	8,490' TVD 8,686' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	5,319'
SURFACE LOCATION	SW/4 NE/4 2,073' FNL	1,480' FEL	Sec 5	T 10S	R 23E
	Latitude: 39.979556	Longitude: -109.346600			NAD 83
BTM HOLE LOCATION	SW/4 NE/4 2,535' FNL	2,520' FEL	Sec 5	T 10S	R 23E
	Latitude: 39.978286	Longitude: -109.350314			NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		20'		14"	
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @	1,371'
Top of Birds Nest @	1,550
Mahogany @	2,044
Preset f/ GL @	1,900' MD

Note: 12.25" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @	4,262'
Mverde @	6,330' TVD
MVU2 @	7,338' TVD
MVU1 @	7,874' TVD

Mud logging program TBD
Cased hole logging program from TD - surf csg

7-7/8"	4-1/2" 11.6# I-80 or equivalent LTC csg	Water / Fresh Water Mud 8.3-11.6 ppg

Max anticipated Mud required 11.6 ppg

TD @ 8,490' TVD 8,686' MD

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,520	2,020	453,000
SURFACE	9-5/8"	0	to	1,900	36.00	J-55	LTC	1.06	2.27	8.43
								7,780	6,350	201,000
PRODUCTION	4-1/2"	0	to	8,686	11.60	I-80	LTC	2.39	1.24	2.29

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,157 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,141 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,400'	65/35 Poz + 6% Gel + 10 pps gilsonite	330	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,756'	Premium Lite II + 3% KCl + 0.25 pps	360	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,930'	50/50 Poz/G + 10% salt + 2% gel	1,210	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

API Well No: 43047504890000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
Bonanza 1023-5G3CS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047504890000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6007 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/12/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the tail cement for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 11, 2010

By:

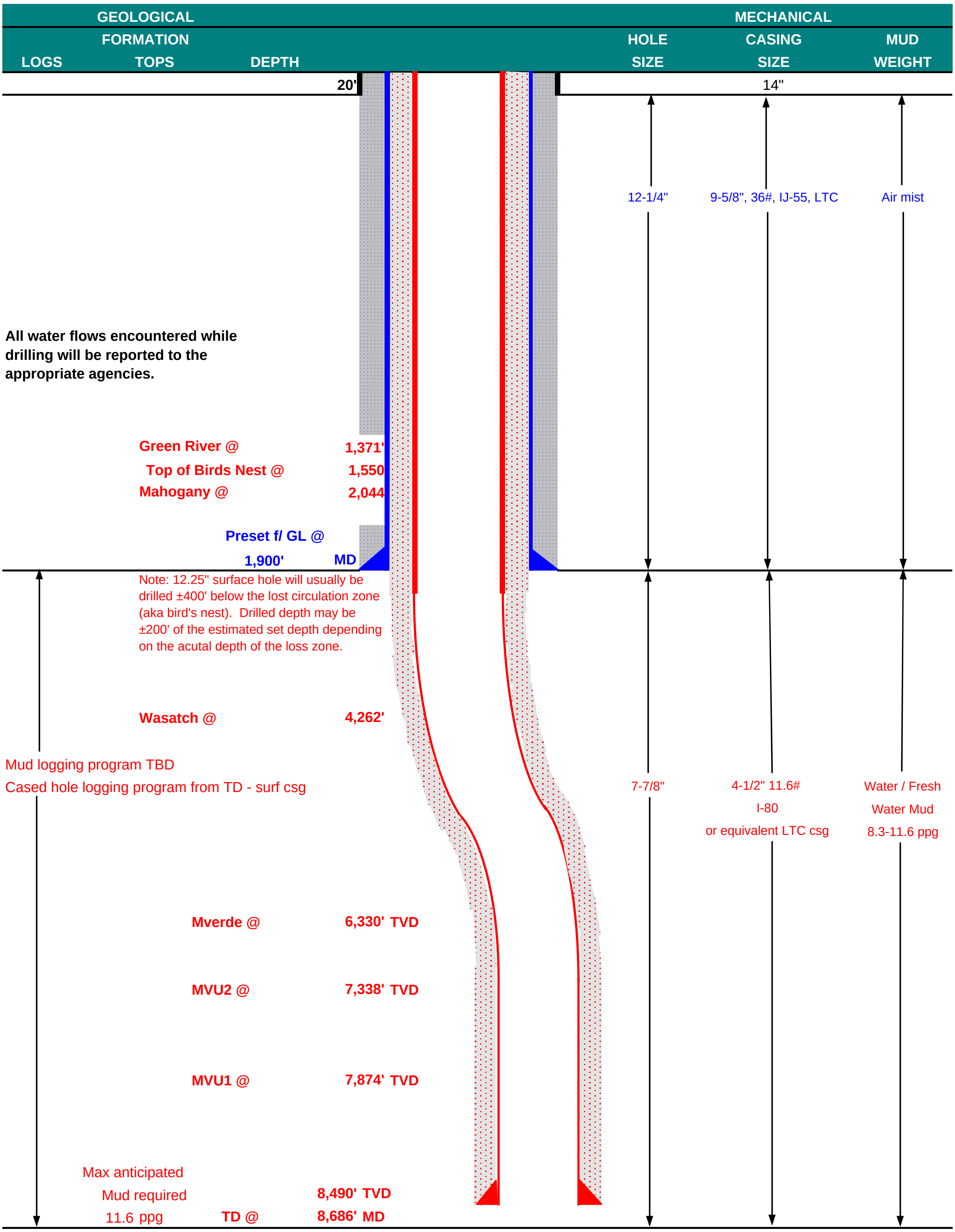
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		2/10/2010

RECEIVED February 10, 2010

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	February 10, 2010
WELL NAME	**Bonanza 1023-5G3CS**	TD	8,490' TVD 8,686' MD
FIELD	Natural Buttes COUNTY Uintah STATE Utah	FINISHED ELEVATION	5,319'
SURFACE LOCATION	SW/4 NE/4 2,073' FNL 1,480' FEL Sec 5 T 10S R 23E		
	Latitude: 39.979556 Longitude: -109.346600 NAD 83		
BTM HOLE LOCATION	SW/4 NE/4 2,535' FNL 2,520' FEL Sec 5 T 10S R 23E		
	Latitude: 39.978286 Longitude: -109.350314 NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), Tri-County Health Dept.		



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 1,900	36.00	IJ-55	LTC	1.06	2.27	8.43
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,686	11.60	I-80	LTC	2.39	1.24	2.29

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,157 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,141 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,400'	65/35 Poz + 6% Gel + 10 pps gilsonite	330	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,826'	Premium Lite II + 3% KCl + 0.25 pps	550	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,860'	50/50 Poz/G + 10% salt + 2% gel	700	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

API Well No: 43047504890000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: Bonanza 1023-5G3CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047504890000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/24/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 1960' TO 8710' ON 2/21/2010. RAN 4 1/2" 11.6 I-80 PRODUCTION CSG. LEAD CMT W/ 950 SX CLASS G PREMIUM LITE @12.5 PPG, 1.98 YIELD. TAILED CMT W/ 650 SX CLASS G 50/50 POZ MIX @ 14.2 PPG, 1.22 YIELD. DISPLACED W/ 134 BBLS CLAYFIX. FINAL LIFT PSI 2250. BUMP PLUG 500 OVER. FLOATS HELD. NO CEMENT BACK TO PIT. FLUSH BOP. CLEAN PITS, RELEASED ENSIGN 139 RIG @ 13:00 HOURS ON 2/23/2010.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 25, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Gianakos	307 752-1169	Regulatory Affairs Supervisor
SIGNATURE N/A		**DATE** 2/24/2010

RECEIVED February 24, 2010

API Well No: 43047504890000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: Bonanza 1023-5G3CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047504890000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 5 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SPUD REPORT Date of Spud:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ DRILLING REPORT Report Date: 4/21/2010	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well was placed on production on 4-21-2010 at 11:00 a.m. The chronological well history will be submitted with the well completion report.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 22, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 4/21/2010

RECEIVED April 21, 2010

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU33433

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE LP Contact: ANDY LYTLE E-Mail: andrew.lytle@anadarko.com

8. Lease Name and Well No. BONANZA 1023-5G3CS

3. Address P.O. BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6100

9. API Well No. 43-047-50489

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SWNE 2073FNL 1480FEL 39.97956 N Lat, 109.34660 W Lon

At top prod interval reported below SWNE 2531FNL 2526FEL

At total depth SWNE 2545FNL 2519FEL 2520 FWL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 5 T10S R23E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 01/18/2010

15. Date T.D. Reached 02/21/2010

16. Date Completed ☐ D & A ☒ Ready to Prod. 04/21/2010

17. Elevations (DF, KB, RT, GL)* 5319 GL

18. Total Depth: MD 8710 TVD 8539

19. Plug Back T.D.: MD 8636 TVD 8465

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR/BHV/DSN/SDL/ACTR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J55	36.0		1945		650			
7.875	4.500 I80	11.6		8681		1600		870	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8088							

25. Producing Intervals

	Formation	Top	Bottom
A)	MESAVERDE	7008	8588
B)			
C)			
D)			

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
7008 TO 8588	0.360	244	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7008 TO 8588	PMP 8,749 BBLS SLICK H20 & 346,864 LBS 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/21/2010	04/25/2010	24	→	0.0	1970.0	182.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1800	2800.0	→	0	1970	182		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

RECEIVED
JUN 02 2010
DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #87022 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	1201				
MAHOGANY	1954				
WASATCH	4389	6314			
MESAVERDE	6314	8710	TD		

32. Additional remarks (include plugging procedure):
ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #87022 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

Name *(please print)* ANDY LYTLE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 05/26/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Scientific Drilling

Directional Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	Kerr McGee Oil & Gas Onshore LP
Well Name & No.	Bonanza 1023-5G3CS
County & State	Uintah County, UT
SDI Job No.	42DEF1002124
Rig	Ensign 139

I, Rex Hall, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 8710 feet is true and correct as determined from all available records.

Signature

26-Feb-10
Date

Rex Hall
Grand Junction Drilling Engineer
Scientific Drilling - Rocky Mountain District

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bonanza 1023-5G Pad
Bonanza 1023-5G3CS
OH

Design: OH

Standard Survey Report

26 February, 2010

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well Bonanza 1023-5G3CS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Site:	Bonanza 1023-5G Pad	**MD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Well:	Bonanza 1023-5G3CS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-5G Pad, Sec 5 T10S R23E				
Site Position:		**Northing:**	14,522,930.71 ft	**Latitude:**	39° 58' 46.711 N
From:	Lat/Long	**Easting:**	2,103,860.75 ft	**Longitude:**	109° 20' 44.588 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	1.06 °

Well	Bonanza 1023-5G3CS, 2073' FNL & 1480' FEL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,522,910.35 ft	**Latitude:**	39° 58' 46.520 N
	+E/-W	0.00 ft	**Easting:**	2,103,804.20 ft	**Longitude:**	109° 20' 45.319 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,319.00 ft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2005-10	12/31/2009	11.18	65.93	52,512

Design	OH				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	10.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	10.00	0.00	0.00	215.04	

Survey Program **Date** 2/26/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
159.00	1,909.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1
1,980.00	8,710.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
159.00	0.21	135.33	159.00	-0.19	0.19	0.05	0.14	0.14	0.00
First SDI Surface MWD Survey									
249.00	0.31	153.07	249.00	-0.53	0.42	0.19	0.14	0.11	19.71
339.00	1.25	257.58	338.99	-0.96	-0.43	1.03	1.51	1.04	116.12
429.00	1.97	233.03	428.96	-2.10	-2.62	3.23	1.09	0.80	-27.28
519.00	1.88	231.95	518.91	-3.94	-5.02	6.11	0.11	-0.10	-1.20
609.00	1.60	234.63	608.86	-5.58	-7.21	8.71	0.32	-0.31	2.98
699.00	2.69	241.46	698.80	-7.31	-10.09	11.78	1.24	1.21	7.59
789.00	2.21	235.18	788.72	-9.31	-13.37	15.30	0.61	-0.53	-6.98
879.00	1.52	232.66	878.67	-11.03	-15.74	18.07	0.77	-0.77	-2.80
969.00	2.42	236.06	968.62	-12.81	-18.27	20.98	1.01	1.00	3.78

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well Bonanza 1023-5G3CS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Site:	Bonanza 1023-5G Pad	**MD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Well:	Bonanza 1023-5G3CS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,059.00	2.25	246.32	1,058.54	-14.58	-21.46	24.26	0.50	-0.19	11.40
1,149.00	2.12	227.64	1,148.48	-16.41	-24.31	27.40	0.80	-0.14	-20.76
1,239.00	2.10	229.18	1,238.42	-18.61	-26.79	30.62	0.07	-0.02	1.71
1,329.00	1.82	242.98	1,328.36	-20.34	-29.31	33.48	0.61	-0.31	15.33
1,419.00	1.63	235.40	1,418.32	-21.72	-31.64	35.95	0.33	-0.21	-8.42
1,509.00	2.40	228.88	1,508.27	-23.68	-34.11	38.98	0.89	0.86	-7.24
1,599.00	2.09	216.27	1,598.20	-26.24	-36.50	42.45	0.65	-0.34	-14.01
1,689.00	2.33	217.91	1,688.13	-29.01	-38.60	45.91	0.28	0.27	1.82
1,779.00	2.54	217.48	1,778.05	-32.04	-40.93	49.73	0.23	0.23	-0.48
1,869.00	2.67	207.47	1,867.96	-35.48	-43.11	53.80	0.52	0.14	-11.12
1,909.00	3.00	210.33	1,907.91	-37.21	-44.07	55.77	0.90	0.82	7.15
Last SDI Surface MWD Survey									
1,980.00	2.55	207.53	1,978.82	-40.21	-45.74	59.19	0.66	-0.63	-3.94
First SDI Production MWD Survey									
2,071.00	3.08	219.57	2,069.72	-43.89	-48.23	63.63	0.87	0.58	13.23
2,161.00	4.48	235.30	2,159.52	-47.76	-52.66	69.34	1.92	1.56	17.48
2,252.00	6.60	251.56	2,250.09	-51.44	-60.55	76.88	2.88	2.33	17.87
2,342.00	8.79	249.71	2,339.28	-55.46	-71.91	86.69	2.45	2.43	-2.06
2,433.00	10.99	248.48	2,428.92	-61.05	-86.50	99.65	2.43	2.42	-1.35
2,523.00	12.66	250.15	2,517.01	-67.55	-103.76	114.88	1.89	1.86	1.86
2,614.00	14.68	248.04	2,605.43	-75.25	-123.83	132.71	2.29	2.22	-2.32
2,704.00	16.80	247.25	2,692.05	-84.54	-146.41	153.28	2.37	2.36	-0.88
2,795.00	18.38	246.90	2,778.79	-95.26	-171.73	176.60	1.74	1.74	-0.38
2,885.00	20.84	245.58	2,863.56	-107.45	-199.37	202.44	2.78	2.73	-1.47
2,976.00	21.90	246.02	2,948.31	-121.03	-229.61	230.93	1.18	1.16	0.48
3,066.00	22.34	246.90	3,031.68	-134.57	-260.68	259.85	0.61	0.49	0.98
3,157.00	21.54	246.20	3,116.09	-148.09	-291.87	288.84	0.92	-0.88	-0.77
3,247.00	21.02	246.11	3,199.95	-161.30	-321.75	316.80	0.58	-0.58	-0.10
3,338.00	21.10	244.79	3,284.88	-174.88	-351.49	345.00	0.53	0.09	-1.45
3,428.00	19.87	245.23	3,369.18	-188.19	-380.04	372.29	1.38	-1.37	0.49
3,519.00	19.52	246.46	3,454.86	-200.75	-408.02	398.63	0.60	-0.38	1.35
3,609.00	19.70	247.34	3,539.64	-212.59	-435.80	424.28	0.38	0.20	0.98
3,700.00	18.55	247.08	3,625.62	-224.14	-463.29	449.52	1.27	-1.26	-0.29
3,791.00	18.11	246.90	3,712.00	-235.33	-489.63	473.80	0.49	-0.48	-0.20
3,881.00	17.67	248.13	3,797.65	-245.90	-515.17	497.13	0.64	-0.49	1.37
3,972.00	18.20	246.46	3,884.22	-256.72	-541.02	520.83	0.81	0.58	-1.84
4,062.00	19.70	247.34	3,969.34	-268.18	-567.90	545.64	1.70	1.67	0.98
4,153.00	20.75	249.10	4,054.73	-279.84	-597.12	571.96	1.33	1.15	1.93
4,243.00	19.96	245.58	4,139.12	-291.88	-626.00	598.41	1.62	-0.88	-3.91
4,334.00	20.40	245.49	4,224.53	-304.88	-654.57	625.46	0.48	0.48	-0.10
4,425.00	20.58	245.41	4,309.77	-318.12	-683.55	652.93	0.20	0.20	-0.09
4,515.00	20.58	245.05	4,394.03	-331.37	-712.27	680.27	0.14	0.00	-0.40
4,606.00	20.75	248.39	4,479.18	-344.06	-741.76	707.59	1.31	0.19	3.67
4,696.00	20.14	249.19	4,563.51	-355.43	-771.07	733.73	0.75	-0.68	0.89
4,787.00	19.52	249.01	4,649.11	-366.44	-799.91	759.31	0.68	-0.68	-0.20
4,877.00	19.43	249.19	4,733.96	-377.15	-827.94	784.16	0.12	-0.10	0.20
4,968.00	19.08	248.66	4,819.87	-387.94	-855.94	809.08	0.43	-0.38	-0.58
5,059.00	17.85	249.19	4,906.18	-398.31	-882.83	833.00	1.36	-1.35	0.58
5,149.00	16.18	248.66	4,992.24	-407.77	-907.41	854.86	1.86	-1.86	-0.59
5,240.00	15.12	249.71	5,079.87	-416.50	-930.35	875.18	1.21	-1.16	1.15
5,330.00	14.16	249.54	5,166.94	-424.42	-951.68	893.91	1.07	-1.07	-0.19
5,421.00	11.96	248.31	5,255.59	-431.80	-970.87	910.97	2.44	-2.42	-1.35
5,512.00	10.55	248.22	5,344.83	-438.37	-987.37	925.83	1.55	-1.55	-0.10
5,602.00	8.71	247.34	5,433.56	-444.05	-1,001.31	938.48	2.05	-2.04	-0.98

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well Bonanza 1023-5G3CS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Site:	Bonanza 1023-5G Pad	**MD Reference:**	GL 5319' & RKB 14' @ 5333.00ft (Ensign 139)
Well:	Bonanza 1023-5G3CS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,693.00	7.30	248.04	5,523.67	-448.87	-1,013.03	949.16	1.55	-1.55	0.77
5,783.00	6.33	248.22	5,613.03	-452.85	-1,022.94	958.11	1.08	-1.08	0.20
5,874.00	4.84	243.91	5,703.60	-456.40	-1,031.05	965.67	1.70	-1.64	-4.74
5,964.00	3.25	253.58	5,793.37	-458.79	-1,036.90	970.99	1.92	-1.77	10.74
6,055.00	2.20	271.16	5,884.27	-459.49	-1,041.12	973.98	1.46	-1.15	19.32
6,146.00	1.23	284.52	5,975.23	-459.21	-1,043.82	975.30	1.15	-1.07	14.68
6,236.00	0.97	289.26	6,065.21	-458.71	-1,045.47	975.84	0.31	-0.29	5.27
6,327.00	0.79	259.03	6,156.20	-458.58	-1,046.81	976.50	0.54	-0.20	-33.22
6,417.00	0.70	251.38	6,246.20	-458.87	-1,047.94	977.39	0.15	-0.10	-8.50
6,508.00	0.62	310.80	6,337.19	-458.73	-1,048.84	977.79	0.72	-0.09	65.30
6,598.00	0.26	282.41	6,427.19	-458.36	-1,049.41	977.82	0.46	-0.40	-31.54
6,689.00	0.18	270.46	6,518.19	-458.32	-1,049.76	977.98	0.10	-0.09	-13.13
6,779.00	0.26	184.50	6,608.19	-458.52	-1,049.91	978.24	0.34	0.09	-95.51
6,870.00	0.44	236.97	6,699.19	-458.92	-1,050.22	978.74	0.38	0.20	57.66
6,960.00	0.53	189.86	6,789.18	-459.52	-1,050.58	979.44	0.44	0.10	-52.34
7,051.00	0.53	277.93	6,880.18	-459.87	-1,051.07	980.01	0.81	0.00	96.78
7,142.00	0.53	235.91	6,971.18	-460.05	-1,051.84	980.59	0.42	0.00	-46.18
7,232.00	0.88	222.55	7,061.17	-460.79	-1,052.65	981.67	0.43	0.39	-14.84
7,323.00	0.62	275.55	7,152.16	-461.26	-1,053.61	982.60	0.78	-0.29	58.24
7,413.00	0.79	16.98	7,242.16	-460.62	-1,053.92	982.25	1.22	0.19	112.70
7,503.00	0.53	53.19	7,332.15	-459.78	-1,053.40	981.27	0.53	-0.29	40.23
7,594.00	0.44	70.86	7,423.15	-459.41	-1,052.73	980.58	0.19	-0.10	19.42
7,685.00	0.70	83.16	7,514.15	-459.23	-1,051.85	979.93	0.31	0.29	13.52
7,775.00	1.06	111.29	7,604.13	-459.47	-1,050.53	979.36	0.61	0.40	31.26
7,866.00	1.06	137.74	7,695.12	-460.39	-1,049.18	979.35	0.53	0.00	29.07
7,956.00	1.58	146.53	7,785.10	-462.05	-1,047.94	979.99	0.62	0.58	9.77
8,047.00	1.76	141.08	7,876.06	-464.18	-1,046.37	980.83	0.26	0.20	-5.99
8,138.00	0.79	126.14	7,967.03	-465.64	-1,044.98	981.23	1.12	-1.07	-16.42
8,228.00	0.88	141.34	8,057.02	-466.54	-1,044.05	981.44	0.26	0.10	16.89
8,319.00	0.79	143.10	8,148.01	-467.59	-1,043.24	981.83	0.10	-0.10	1.93
8,409.00	0.70	137.04	8,238.01	-468.49	-1,042.49	982.13	0.13	-0.10	-6.73
8,500.00	0.62	129.39	8,329.00	-469.21	-1,041.73	982.29	0.13	-0.09	-8.41
8,590.00	0.97	147.58	8,418.99	-470.16	-1,040.94	982.62	0.47	0.39	20.21
8,655.00	1.23	145.47	8,483.98	-471.20	-1,040.25	983.07	0.40	0.40	-3.25
Last SDI Production MWD Survey									
8,710.00	1.23	145.47	8,538.97	-472.17	-1,039.58	983.48	0.00	0.00	0.00
Projection To TD									

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
B 1023-5G3CS PBHL	0.00	0.00	8,502.00	-462.54	-1,040.72	14,522,428.58	2,102,772.24	39° 58' 41.948 N	109° 20' 58.690 W
- actual wellpath misses target center by 20.00ft at 8655.00ft MD (8483.98 TVD, -471.20 N, -1040.25 E)									
- Circle (radius 25.00)									

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 12/30/2009	End Date: 2/23/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/21/2010	10:00 - 17:00	7.00	RDMO	01	A	P		MOVE 27 MILES TO THE BONANZA 1023-5G PAD
	17:00 - 21:30	4.50	MIRU	01	B	P		DRESS COND,INSTALL AIR BOWL,R/U BLOOY LINES,RIG UP,DIG DITCH,R/U PUMPS,COMP,BOOSTER,P/U MTR 1.83 BEND SERIAL #8082, HC507Z SERIAL # 7014966 12 1/4 3RD RUN
	21:30 - 22:30	1.00	DRLSUR	02	B	P		SPUD SURFACE HOLE 1-21-2010 @ 21:30, DRLG F/ 44' TO 150'
	22:30 - 0:00	1.50	DRLSUR	06	A	P		L/D 6" DCS, P/U DIRECTIONAL TOOLS, - SLOT SUBS
1/22/2010	0:00 - 2:00	2.00	DRLSUR	06	A	P		P/U DIR TOOLS AND SCRIBE
	2:00 - 20:00	18.00	DRLSUR	02	C	P		DRLG W / MWD F/ 150' TO 1960' TD, 1810' (101' HR HR) WATER AT 1520' WOB= 20,RPM=50,GPM=650,MM RPM=105,UP/DWN/ROT,60/60/60/ ON/OFF BTM=1300/1130 PSI, ARATED WATER 1520
	20:00 - 21:00	1.00	DRLSUR	05	C	P		CIRC TO LDDS
	21:00 - 0:00	3.00	DRLSUR	06	D	P		LDDS FOR 9 5/8 CSNG
1/23/2010	0:00 - 3:00	3.00	DRLSUR	08	A	Z		WORK ON TRUCK WITH BHA TRAILER WAIT TO LD BHA
	3:00 - 4:00	1.00		06	D	P		FINISH LD BHA DIR TOOLS
	4:00 - 7:30	3.50	DRLSUR	12	C	P		RUN 45 JOINTS 36# J-55 9 5/8 CSNG, SHOE @ 1935.20' BAFFLE AT 1892' RELEASE RIG TO THE BONZ 1023-5G3BS ON 01-23-2010 @ 07:30
	9:00 - 16:30	7.50	DRLSUR	12		P		HELD SAFETY MTNG,PRESS TEST TO 2000 PSI,PUMP 140 BBLS H20,PUMP 20 BBLS GEL WATER,PUMP 225 SX 15.8 # 1.15 YLD 5 GAL/SK TAIL CMNT DROP PLUG ON FLY DISP W/ 145 BBLS FRESH WATER 150 PSI LIFT NO RETURNS, BUMP PLUG W / 600 PSI,TOP OUT 100SX OF 15.83 1.15 YLD 5 GAL SK 4% CALC CMNT, WAIT 2 HRS PUMP 100 SX SAME CMNT, WAIT 1 HR PUMP 125 SX SAME CMNT, WAIT 1 HR 100 SK SAME CMNT WAIT 1 HR PUMP 100 SX SAME CMNT NO RETURNS TO SURFACE WILL READY MIX W/ PETE MARTIN APP 3.5 YRDS OF READY MIX TO SURFACE
2/13/2010	20:00 - 0:00	4.00	DRLPRO	01	A	P		R/D RIG & GET READY F/ RIG MOVE
2/14/2010	0:00 - 7:00	7.00	DRLPRO	01	E	P		R/D RIG GET READY F/ TRUCK
	7:00 - 18:00	11.00	DRLPRO	01	A	P		HELD S/M W/ ENSIGN CREWS & JONES TRUCKING STARTED RIG MOVE @ 07:00 & RELEASED TRUCKS @ 18:00 - 100% MOVED & 70 % RIG UP
	18:00 - 0:00	6.00	DRLPRO	21	C	P		STAND BY WAIT ON DAYLIGHT
2/15/2010	0:00 - 6:00	6.00	DRLPRO	21	C	P		WAIT ON DAYLIGHT - STAND BY
	6:00 - 20:00	14.00	DRLPRO	01	B	P		STRING BLOCKS - RAISED DERRICK & LOWER DERRICK BOARD HAD TROUBLE GETTING THE BOARD TO LOWER HAD TO BYPASS RELIEF VALVE - R.U.R.T
	20:00 - 22:00	2.00	DRLPRO	14	A	P		NIPPLE UP B.O.P'S & FLARE LINES
	22:00 - 0:00	2.00	DRLPRO	15	A	P		TEST B.O.P'S
2/16/2010	0:00 - 5:30	5.50	DRLPRO	15	A	P		TEST B.O.P'S
	5:30 - 6:00	0.50	DRLPRO	14	B	P		SET WEAR BUSHING
	6:00 - 7:00	1.00	DRLPRO	23		P		HELD SAFETY MEETING & PRE SPUD INSPECTION

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 12/30/2009	End Date: 2/23/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 11:00	4.00	DRLPRO	06	A	P		P/U DIR TOOLS & BHA - DRILL PIPE & TAG CEMENT @ 1860
	11:00 - 12:30	1.50	DRLPRO	02	F	P		DRILL CEMENT @ F.E
	12:30 - 13:00	0.50	DRLPRO	07	A	P		SER RIG
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DIR DRILL F/ 1970 TO 2760 - 790' @ 71.8 FPH W/ 9.4 PPG MUD WT - RPM 45 - MRPM 112 - WOB 14/17 - TQ 6/3 - GPM 486
2/17/2010	0:00 - 10:00	10.00	DRLPRO	02	D	P		DIR DRILL F/ 2760 TO 3529,AVG 77,WOB 14,GPM 480,PSI 1350,DIFF 300
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	10:30 - 16:00	5.50	DRLPRO	02	D	P		DIR DRILL F/3529 TO 3936,AVG 74,WOB 17,GPM 480,DIFF 250,PSI 1400,TORQ 3800
	16:00 - 16:30	0.50	DRLPRO	08	A	Z		REBOOT PLC CARD F/IRON DERRICKHAND
	16:30 - 22:00	5.50	DRLPRO	02	D	P		DIR DRILL F/3936 TO 4253,AVG 58,WOB 17,GPM 480,DIFF 250,PSI 1400,TORQ 3800,RPM 170,
	22:00 - 23:00	1.00	DRLPRO	08	A	Z		TROUBLESHOOT PLC CARDS& ETHERNET CABLES ON DRLG CONSOLE,ONLINE W/RIGSMART FROM /CANADA
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DIR DRILL F/ 4253 TO 4310,AVG 57,WOB 18,GPM 480,DIFF 250,PSI 1400,TORQ 3800,RPM 170
2/18/2010	0:00 - 21:00	21.00	DRLPRO	02	D	P		DIR DRILL F/4310 TO 5884' ,AVG 75 ,WOB 18,GPM 480,DIFF 300,PSI 1600,TORQ 9000,RPM 170,STWT 180-150-130,8.6/27
	21:00 - 21:30	0.50	DRLPRO	07	A	P		DAILY SERVICE
	21:30 - 0:00	2.50	DRLPRO	02	D	P		DIR DRILL F/5884' TO 6010,AVG 52 ,WOB 18,GPM 480,DIFF 300,PSI 1600,TORQ 9000,RPM 170,STWT 190-160-130,8.6/27
2/19/2010	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/ 6010 TO 6789,AVG 53 ,WOB 18,GPM 480,DIFF 250,PSI 1800,TORQ 10K,RPM 170,STWT 190-160-130,9.2/40
	14:30 - 15:00	0.50	DRLPRO	07	A	P		DAILY SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DIR DRILL F/ 6789 TO7240 ,AVG 50 ,WOB 20,GPM 480,DIFF 250,PSI 1800,TORQ 11K,RPM 170,STWT 205-178-160,9.8/42
2/20/2010	0:00 - 7:00	7.00	DRLPRO	02	D	P		DIR DRILL F/7240 TO7604 ,AVG 52 ,WOB 20,GPM 480,DIFF 250,PSI 1800,TORQ 11K,RPM 170,STWT 205-178-160,10.8/39
	7:00 - 10:00	3.00	DRLPRO	08	A	Z		TROUBLESHOOT PECO,REPAIR RESTORE COMPUTOR SETTING
	10:00 - 10:30	0.50	DRLPRO	07	A	P		TOPDRIVE SERVICE
	10:30 - 0:00	13.50	DRLPRO	02	D	P		DIR DRILL F/7604 TO 8150 ,AVG 40 ,WOB 20,GPM 480,DIFF 250,PSI 2400,TORQ 11K,RPM 170,STWT 220-185-170,11.9/41
2/21/2010	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/8150 TO TD 8710' ,AVG 39 ,WOB 20,GPM 440,DIFF 250,PSI 2600,TORQ 10K,RPM 160,STWT 230-190-170,WT 12.1/42 3%LCM
	14:00 - 14:30	0.50	DRLPRO	08	A	P		DAILY SERVICE
	14:30 - 15:30	1.00	DRLPRO	05	C	P		CIRC BTMSUP 12.1+/42 3% LCM
	15:30 - 16:30	1.00	DRLPRO	08	A	Z		REPAIR IDH,RIG SMART SAFETY/CONTROLS
	16:30 - 21:30	5.00	DRLPRO	06	E	P		PUMP PILL,TOOH TO SHOE ,NO TIGHT HOLE ,ST PULL 60K OVER,
	21:30 - 0:00	2.50	DRLPRO	06	E	P		TIH,
2/22/2010	0:00 - 2:30	2.50	DRLPRO	06	E	P		TIH F/SHORTTRIP
	2:30 - 4:00	1.50	DRLPRO	05	C	P		CIRC & CONDITION F/LOGS,PUMPPILL,BLOWKELLY
	4:00 - 9:30	5.50	DRLPRO	06	B	P		POOH F/LOGS,NO TIGHT HOLE,PULL WEARRING

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 12/30/2009	End Date: 2/23/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 17:00	7.50	EVALPR	11	D	P		SM W/HALLIBURTON,R/U RUN TRIPLE COMBO TO LOGGERS DEPTH(8684),WORK THRU BRIDGE @4900
	17:00 - 0:00	7.00	CSG	12	C	P		R/U &RUN 205 JTS & 1 MARKER 4.5 BTC I-80 TO 8681' W/FRANKS ,FINISH @1AM TUESDAY
2/23/2010	0:00 - 1:00	1.00	CSG	12	C	P		FINISH CSG 8681'
	1:00 - 2:30	1.50	CSG	05	D	P		CIRC BTMS UP F/CEMENT
	2:30 - 7:00	4.50	CSG	22	L	Z		WAIT ON SECOND PUMP TRUCK F/TOWN,FIRSTTRUCK UNABLE TO START JOB
	7:00 - 10:30	3.50	CSG	12	E	P		PUMP 40BBLS SPACER,950 SX LEAD12.4#1.98 YLD,650SX TAIL 14.3#1.22YLD,DISPLACE 134BBLS CLAYFIX,FINALLIFT PSI 2250,BUMPPLUG 500 OVER,FLOATS HELD,NO CEMENT BACK TO PIT
	10:30 - 11:00	0.50	RDMO	14	A	P		FLUSH BOP,SET PACKOFF,
	11:00 - 13:00	2.00	RDMO	01	E	P		CLEAN PITS,RELEASE RIG 13:00 2/23/10,PREP F/SKID

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 12/30/2009	End Date: 2/23/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 13:00		RDMO					CONDUCTOR CASING: Cond. Depth set: 44 Cement sx used: SPUD DATE/TIME: 1/21/2010 / 21:30 SURFACE HOLE: Surface From depth:44 Surface To depth: 1,960 Total SURFACE hours: 19.00 Surface Casing size:9 5/8 # of casing joints ran: 45 Casing set MD:1,935.0 # sx of cement:750 Cement blend (ppg:)15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 1 Describe cement issues: 5 TOPOUTS Describe hole issues: PRODUCTION: Rig Move/Skid start date/time: 2/14/2010 7:00 Rig Move/Skid finish date/time2/15/2010 20:00 Total MOVE hours: 37.0 Prod Rig Spud date/time: 2/16/2010 11:00 Rig Release date/time: 2/23/2010 13:00 Total SPUD to RR hours: 170.0 Planned depth MD 8,713 Planned depth TVD 8,540 Actual MD: 8,710 Actual TVD: 8,539 Open Wells $: $751,514 AFE $: $659,359 Open wells $/ft:$86.28 PRODUCTION HOLE: Prod. From depth: 1,970 Prod. To depth:8,710 Total PROD hours: 114.5 Production Casing size: 4 1/2 # of casing joints ran: 206 Casing set MD:8,681.0 # sx of cement:950 LEAD/650 TAIL Cement blend (ppg:)LEAD 12.4 - 5% TAIL 14.2 - 10% Cement yield (ft3/sk): 2.03 1.22 Est. TOC (Lead & Tail) or 2 Stage : 0 LEAD,5990 TAIL MD Describe cement issues: NO CEMENT TO SURFACE Describe hole issues: LOGS HIT BRIDGE 4900,WORK THRU LOGGERS DEPTH 8684,PUMP TRUCK BROKE BEFORE CEMENT JOB STARTED DIRECTIONAL INFO: KOP: 159 Max angle: 22.34 Departure: 1149.00 Max dogleg MD: 2252.00

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010	
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD		Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/12/2010		End Date: 4/20/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/9/2010	10:00 - 14:00	4.00	COMP	37	B	P		(PERF STG #1) RIH W/ PERF GUNS, FOUND SHORT JT OFF 100', CHECK LOGS W/ WELL #, FOUND WELLS WERE CHANGE AROUND OR MARK WRONG, FOUND RIGHT LOGS FOR THE WELLS, RIH W/ PERF GUNS, PERF THE MESAVERDE @8584' - 8588', 8484' - 8486', 8408' - 8412',, USING 3 1/8" SCALLOP GUNS, 23gm, 120* PHS, 0.36 HOLE, 40 HOLES, P/O W/ WIRELINE, SWI,

4/12/2010	10:40 - 16:00	5.33	COMP	36	E	P		(STG #1) WHP = 675 #, BRK DN PERF @ 3391 # @ 3 B/M, INJ-RT = 54 B/M, INJ-P = 4600 #, ISIP = 2673#, F.G.= 0.75 , PUMP 3 BBLS HCL AHEAD OF INJ, CALC ALL PERF OPEN, PUMP 1094 BBLS SLK WTR & 34889 # OTTAWA SAND, ISIP = 2431 #, F.G.= 0.72 , NPI = -242 #, MP = 6476 #, MR = 54.8 B/M, AP = 4500 #, AR = 54.2 B/M, 29889 # 30/50 SAND, 5000 # TLC SAND,
								COMMENTS = GOOD JOB ,
								
								(STG #2) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 8344', PERF THE MESAVERDE @ 8312' - 8314', 8268' - 8270', 8158' - 8160', 8136' - 8140' , 4-SPF, USING 3 1/8" SCALLOP GUNS 23 gm, 0.36 HOLE, 120* PHS, 40 HOLES, WHP = 1960 #,
								BRK DN PERF @ 2961# @ 5 B/M, INJ-RT = 51 B/M, INJ-P = 4650 #, ISIP = 2508 #, F.G.= 0.74, CALC ALL PERF OPEN, PUMP 2640 BBLS SLK WTR & 106410 # OTTAWA SAND, ISIP = 2543 #, F.G.= 0.74 , NPI = 35 #, MP = 6058 #, MR = 56.3 B/M, AP = 4230 #, AR = 51.2 B/M, 101410 # 30/50 SAND, 5000 # TLC SAND,
								COMMENTS = GOOD JOB ,
								
								(STG #3) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7960 ', PERF THE MESAVERDE @ 7926' - 7930', 7850' - 7854', 7828' - 7830', 7760' - 7762', 3-SPF, USING 3 1/8" SCALLOP GUNS 23 gm, 0.36 HOLE, 120* PHS, 40 HOLES,

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/12/2010	End Date: 4/20/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation

4/13/2010	7:50 - 16:30	8.67	COMP	36	E	P		(STG # 3) WHP = 1600 #,
								BRK DN PERF @ 3432 # @ 3 B/M, INJ-RT = 53 B/M, INJ-P = 4400# , ISIP = 2390 #, F.G.= 0.74 , CALC ALL PERF OPEN, PUMP 1217 BBLS SLK WTR & 48516 # OTTAWA SAND, ISIP = 2372 #, F.G. = 0.74 ,
								NPI = 18 #, MP = 5269 #, MR = 53.7 B/M, AP = 3940 #, AR = 52.8 B/M, 43516 # 30/50 SAND, 5000 # TLC SAND.
								COMMENTS = GOOD JOB
								
								(STG #4) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7634 ', PERF THE MESAVERDE @ 7600 - 7604', 7554' - 7558', 7504' - 7506', 4-SPF, USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 40 HOLES, WHP = 1240 #,
								BRK DN PERF @ 2832 # @ 4 B/M, INJ-RT = 52 B/M, INJ-P = 4500#, ISIP = 2225 #, F.G.= 0.73 , CALC ALL PERF OPEN, PUMP 1435 BBLS SLK WTR & 58163 # OTTAWA SAND, ISIP = 1978 #, F.G. = 0.68 ,
								NPI = -247 #, MP = 5835 #, MR = 54 B/M, AP = 3610 #, AR = 53.1 B/M, 53163 # 30/50 SAND, 5000 # TLC SAND.
								COMMENTS = LOST PRIME
								
								(STG #5) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7416 ', PERF THE MESAVERDE @ 7384' - 7386' 3-SPF, 7320' - 7324' 4-SPF, 7282' - 7286' 4-SPF, 7218' - 7220' 3-SPF ', USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 44 HOLES, WHP = 94 #,
								BRK DN PERF @ 2614 # @ 6.3 B/M, INJ-RT = 51 B/M, INJ-P = 3600 #, ISIP = 1878 #, F.G.= 0.69 , CALC ALL PERF OPEN, PUMP 1592 BBLS SLK WTR & 66016 # OTTAWA SAND, ISIP = 1860 #, F.G. = 0.69 , NPI = -18 #, MP = 6052 #, MR = 51.4 B/M, AP = 3130 #, AR = 50 B/M, 61016 # 30/50 SAND, 5000 # TLC SAND.
								COMMENTS = GOOD JOB
								
								(STG #6) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 7170', PERF THE MESAVERDE @ 7136' - 7140', 7008' - 7014', 4-SPF, USING 3 1/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 120* PHS, 40 HOLES, WHP = 1450 #,
								BRK DN PERF @ 2949 # @ 6.5 B/M, INJ-RT = 52 B/M, INJ-P = 4645 #, ISIP = 2025 #, F.G.= 0.72 , CALC 80% PERF OPEN, PUMP 771 BBLS SLK WTR & 32870 # OTTAWA SAND, ISIP = 1896 #, F.G. = 0.70 , NPI = -129 #, MP = 5575 #, MR = 53.5 B/M, AP = 3370 #, AR = 52.3 B/M, 27870 # 30/50 SAND, 5000 # TLC SAND.
								COMMENTS = GOOD JOB
								
								(KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 6958', R/D WIRELINE AND FRAC CREW OFF WELL, SWI
								
								TOTAL WTR = 8749 BBLS SLK WTRM
								TOTAL SAND = 346864 # OTTAWA SAND,

4/20/2010	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/12/2010	End Date: 4/20/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 11:30	4.25	COMP	31	I	P		MIRU, N/D FRAC VALVE, N/U BOPS AND TBG EQUIP, TALLY TBG ON TRAILER, P/U 3 7/8" BIT AND POBS, TIH W/ 2 3/8" L-80 TUBING, TAG 6928', R/U POWER SWIVEL, PRESSURE TEST BOPS AND CSG TO 3000#,
	11:30 - 17:00	5.50	COMP	44	C	P		(DRLG CBP #) C/O SAND FROM 6928' TO 6958', DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 300# DIFF, RIH TAG SAND @ 7140', C/O 31' SAND, FCP = 200#, (DRLG CBP #2), 7170', DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 300 # DIFF, RIH TAG SAND @ 7386 ', C/O 30' SAND, FCP = 100 #, (DRLG CBP #3), 7416', DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 300 # DIFF, RIH TAG SAND @ 7604 ', C/O 30 ' SAND, FCP = 150 #, (DRLG CBP #4), 7634', DRILL OUT HALLIBURTON 8K CBP IN 3 MIN, 250 # DIFF, RIH TA SAND @ 7930 ', C/O 30' SAND, FCP = 300 #, (DRLG CBP # 5), 7960', DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 150 # DIFF, RIH TAG SAND @ 8314 ', C/O 30 ' SAND, FCP = 300 #, (DRLG CBP #6), 8344', DRILL OUT HALLIBURTON 8K CBP IN 2 MIN, 200 # DIFF, RIH TAG SAND @ 8588 ', C/O 48' SAND, TO PBTD 8636', CIRC WELL CLEAN FCP = 300 #, R/D POWER SWIVEL, P/O LAY DN 18 JTS ON TRAILER, LAND TBG W/ HANGER, EOT @ 8088.11', N/D BOPS AND TBG EQUIP, DROP BALL DN TBG, N/U W.H., PUMP OFF BIT @ 1400 #, WAIT 30 MIN FOR BIT TO FALL, OPEN WELL TO TK W/ FTP = 1400#, SICP = 1900 #, TURN WELL OVER TO FBC W/ 7249 BBLS WTR LTR, R/D SERVICE UNIT MOVE OFF LOC, KB = 13.00' WEATHERFORD HANGER = .83' 256 JTS 2 3/8" L-80 TBG = 8072.08' XN-NIPPLE 1.875, POBS = 2.20' EOT = 8088.11' 316 JTS 2 3/8" L-80 DELV. 256 JTS 2 3/8" L-80 LANDED 60 JTS 2 3/8" L-80 RETURNED
4/21/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1800#, 20/64" CK, 56 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 2766 BBLS LEFT TO RECOVER: 6283
	11:00 -		PROD	50				WELL TURNED TO SALES @ 1100 HR ON 4/21/10 - 1400 MCF, 1272 BWPD, CP 3050#, FTP 1625#, CK 20/64"
4/22/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2825#, TP 1750#, 20/64" CK, 42 BWPH, TRACE SAND, 1732 GAS TTL BBLS RECOVERED: 3917 BBLS LEFT TO RECOVER: 5132

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 4/12/2010	End Date: 4/20/2010
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/23/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2625#, TP 1700#, 20/64" CK, 30 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4789 BBLS LEFT TO RECOVER: 4260
4/24/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2500#, TP 1600#, 20/64" CK, 21 BWPH, TRACE SAND, 2014 GAS TTL BBLS RECOVERED: 5440 BBLS LEFT TO RECOVER: 3609

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750381	BONANZA 1023-2K4S		SENW	2	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
E	17446	17446	1/7/2010			4/23/10	
Comments: THIS WELL IS PRODUCING OUT OF THE MVRD ONLY. — 7/13/10							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750488	BONANZA 1023-5G3BS		SWNE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
E	17461	17461	1/18/2010			4/20/10	
Comments: THIS WELL IS PRODUCING OUT OF THE MVRD ONLY. — 7/13/10							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750489	BONANZA 1023-5G3CS		SWNE	5	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
E	17460	17460	1/18/2010			4/21/10	
Comments: THIS WELL IS PRODUCING OUT OF THE MVRD ONLY. — 7/13/10							

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

ANDY LYTLE
Name (Please Print)
Signature
REGULATORY ANALYST
Title
7/13/2010
Date

RECEIVED
JUL 13 2010
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-5G3CS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047504890000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/6/2011	☐ ACIDIZE	☐ ALTER CASING	✓ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Wellhead

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 04/06/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		4/6/2011

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WORKORDER # 88119315

Name: BONANZA 1023-5G3CS – 1023-5G PAD 4/5/11
Surface Location: SWNE Sec. 5, T10S, R23E
Uintah County, UT

API: 4304750489 LEASE#: UTU-33433

ELEVATIONS: 5319' GL 5332' KB

TOTAL DEPTH: 8710' PBTD: 8636'

SURFACE CASING: 9 5/8", 36# J-55 @ 1945'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8681'
No CBL on file

PERFORATIONS: Mesaverde 7008' – 8588'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 ½" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1201' Green River
1954' Mahogany
4389' Wasatch
6314' Mesaverde

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BONANZA 1023-5G3CS – WELLHEAD REPLACEMENT PROCEDURE -

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6958'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

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CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.

2. POOH, LD cutters and casing.

3. PU 7 3/8" overshot with 4 ½" right hand standard wicker grapple, 1 - 4 ¾" drill collar with 3 ½" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.

4. TIH w/ skirted mill and dress off the fish top for approximately ½ hour. TOOH.

5. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.

6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.

7. Install slips. Land casing w/ 80,000# tension.

8. Cut-off and dress 4 ½" casing stub.

9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6908'. Clean out to PBTD (8636').

10. POOH, land tbg and pump off POBS.

11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.

2. POOH, LD cutters and casing.

3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.

4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.

5. Back-off casing, POOH.

RECEIVED Apr. 06, 2011

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ±7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.

7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.

8. Install slips. Land casing w/ 80,000# tension.

9. Cut-off and dress 4 ½" casing stub.

10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6908'. Clean out to PBTD (8636').

11. POOH, land tbg and pump off POBS.

12. NUWH, RDMO. Turn well over to production ops.

RECEIVED Apr. 06, 2011

Logan High Pressure Casing Patches
Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.

2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type “L” Packers.

3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.

4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.

5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.

6. Install the Cutlipped Guide into the lower end of the Bowl.

7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.

8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

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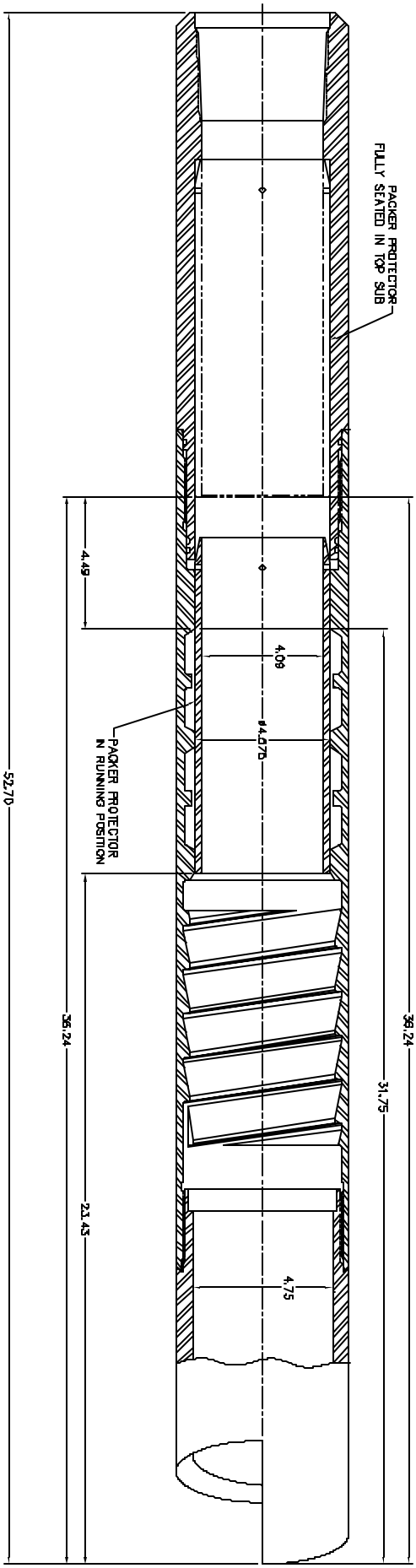
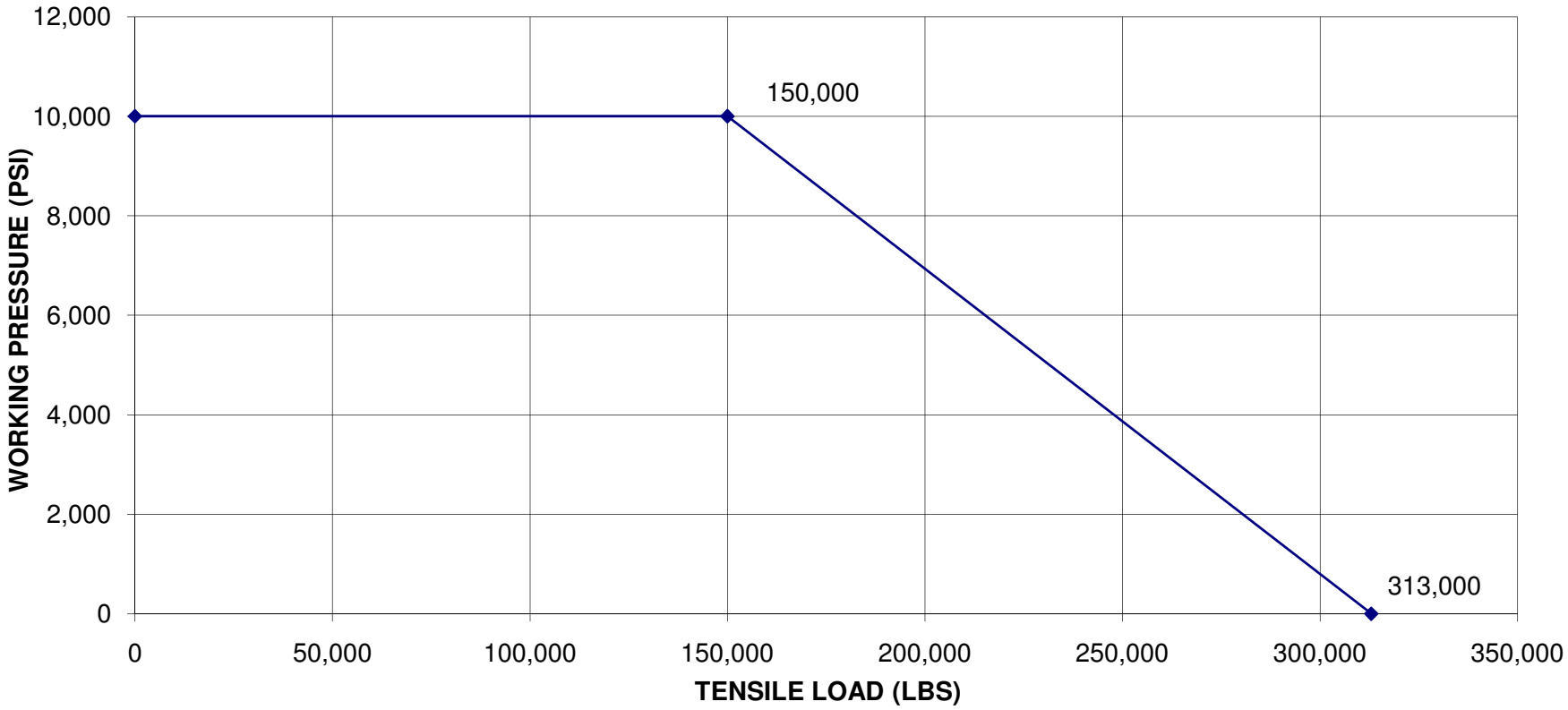


510L-005-001 4-1/2" LOGAN HP CASING PATCH

RECEIVED Apr. 06, 2011

STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Apr. 06, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5G3CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047504890000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	✓ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 6/20/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Wellhead Repair

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 6/20/2011

RECEIVED Jun. 20, 2011

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010	
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD		Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE	Start Date: 5/19/2011		End Date: 6/10/2011
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/8/2011	7:00 - 7:30	0.50	MAINT	48		P		TRIPPING TBG
	7:30 - 17:00	9.50	MAINT	31		P		MIRU,BLOW DWN WELL, NDWH, NU BOP'S, TEST, UNLAND TBG, POOH STD BACK 113 STDS, LD 30 JTS SCALED TBG ON TLR, RU CUTTERS, RUN GAUGE RING TO 6970', POOH PU 10K CBP, TIH SET AT 6958', POOH PU BAILER BAIL 4 SX CEMENT ON CBP, RD CUTTERS, SWIFN
6/9/2011	7:00 - 7:30	0.50	MAINT	48		P		CSG PATCH
	7:30 - 7:30	0.00	MAINT	45		P		TIH 10 JTS TBG, ROLL CSG WITH T-MAC, NDWH, CUT OFF CSG 1 1/2' DWN, RU WEATHERFORD, TORQUE CSG TO 5000# RU CUTTERS, STRING SHOOT CSG COLLAR TWICE, BACK OFF 2 JTS DWN, POOH BACK OFF PUP COLLARS STING IN NEW 10' PUP, TIH, STING IN CSG 2 JTS DWN, TORQUE TO 7,000# 49 1/2 TURNS, RU B&C TESTERS, TEST TO PROCEDURE, TEST GOOD, CUT OFF CSG, DRESS, NUWH, WEATHERFORD TEST WH, NUBOP'S. NUWH, NU BOP'S, TIH TBG TO 219 JTS 69O8', DRILL CEMENT PLUG- CBP, 221 JTS, 6990'. SWIFN
6/10/2011	7:00 - 7:30	0.50	MAINT	48		P		TRIPPING TBG

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS GREEN	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE	Start Date: 5/19/2011	End Date: 6/10/2011
Active Datum: RKB @5,333.00ft (above Mean Sea Leve	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	MAINT	31		P		TIH HIT SCALE 257 JTS, 8091', RU FOAM UNIT, PWR SWIVEL, DRILL OUT 30', TIH TO 8579', 272 JTS, CLEAN FILL TO 274 JTS, 8636' PBTD, POOH LD 18 JTS, BROACH TO SN, POOH STD BACK TBG, ND MILL, BIT SB, PU XNSN, NC, TIH TO 8087.88', 256 JTS, LAND TBG, ND BOP'S, NU WH RTP RD TBG 256 JTS 8071.85' KB 13.00' XNSN 1.875" 2.20' HANGER .83' EOT 8087.88' PBTD 8636.00' WTR PUMPED 260 BBLS WTR RCVD 250 BBLS CALLED CDC 4:00 PM SONNY RTP

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 33433

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
BONANZA 1023-5G3CS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047504890000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/21/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests authorization to recomplete the subject well. The operator requests approval to recomplete the Wasatch formation and commingle with the existing Mesaverde formation. Please see the attached procedure. Thank you.----------Authorization: Board Cause No. 179-14 - DKD ----------

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 23, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		2/21/2012

RECEIVED: Feb. 21, 2012

Greater Natural Buttes Unit

BONANZA 1023-5G3CS

RE-COMPLETIONS PROCEDURE

DATE:2/1/2012
AFE#:
API#: 4304750489
USER ID:RACHAPPE (Frac Invoices Only)

COMPLETIONS ENGINEER: **James Page, Denver, CO**
720-929-6747(Office)
303-501-2731 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

R E M E M B E R S A F E T Y F I R S T !

RECEIVED: Feb. 21, 2012

Name: **Bonanza 1023-5G3CS**
Location: **SW SW SW NE SEC5 T10S R23E**
LAT: 39.979556 **LONG: -109.346600** **COORDINATE:** *NAD83 (Surface Location)*
Uintah County, UT
Date: **2/1/2012**

ELEVATIONS: 5319' GL 5332' KB *Frac Registry TVD: 8539'*

TOTAL DEPTH: 8710' **PBTD:** 8635'
SURFACE CASING: 9 5/8", 36# J-55 LTC @ 1945'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BTC @ 8681'
Marker Joint **4342-4362**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1182' Green River Top
1417' Bird's Nest Top
1973' Mahogany Top
4389' Wasatch Top 6471' Wasatch Bottom
6471' Mesaverde Top 8710' Mesaverde Bottom (TD)

T.O.C. @ 2140'
Hydraulic Isolation @ 4262'
**Based on latest interpretation of CBL

GENERAL:

- A minimum of **6** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 2/22/2010
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- **If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation**

RECEIVED: Feb. 21, 2012

(specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes.

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- **TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLS**
- Tubing Currently Landed @~8088
- Originally completed on 4/13/2010

Existing Perforations:

PERFORATIONS

Formation	Zone	Top	Btm	spf	Shots	Date	Reason
MESAVERDE		7008	7014	4	24	04/12/2010	PRODUCTION
MESAVERDE		7136	7140	4	16	04/12/2010	PRODUCTION
MESAVERDE		7218	7220	3	6	04/12/2010	PRODUCTION
MESAVERDE		7282	7286	4	16	04/12/2010	PRODUCTION
MESAVERDE		7320	7324	4	16	04/12/2010	PRODUCTION
MESAVERDE		7384	7386	3	6	04/12/2010	PRODUCTION
MESAVERDE		7504	7506	4	8	04/12/2010	PRODUCTION
MESAVERDE		7554	7558	4	16	04/12/2010	PRODUCTION
MESAVERDE		7600	7604	4	16	04/12/2010	PRODUCTION
MESAVERDE		7760	7762	3	6	04/12/2010	PRODUCTION
MESAVERDE		7828	7830	3	6	04/12/2010	PRODUCTION
MESAVERDE		7850	7854	4	16	04/12/2010	PRODUCTION
MESAVERDE		7926	7930	3	12	04/12/2010	PRODUCTION
MESAVERDE		8136	8140	4	16	04/12/2010	PRODUCTION
MESAVERDE		8158	8160	4	8	04/12/2010	PRODUCTION
MESAVERDE		8268	8270	4	8	04/12/2009	PRODUCTION
MESAVERDE		8312	8314	4	8	04/12/2010	PRODUCTION
MESAVERDE		8408	8412	4	16	04/12/2010	PRODUCTION
MESAVERDE		8484	8486	4	8	04/12/2010	PRODUCTION
MESAVERDE		8584	8588	4	16	04/12/2010	PRODUCTION

Relevant History:

Originally completed as an Mesaverde only well 4/13/2010
Currently producing ~350MCFD

Last Slickline Report: "Travel to location rig up went in with G1 tool stacked out at 8076 beat down latch on sleeve came out put on jdc went back in stacked out at the same spot beat down latch on ball came out went back in stacked out at the same spot beat down latch on spring hit oil jars 1 time broke loose came out had a titanium spring run T.D with bailer stacked out at 8627 beat down came

out bailer had some sand scratch and brouch tubing had a lot of wax came out 1.90 brouch was clean pacemaker was good titanium spring was good drop titanium spring and pacemaker chase to seat nipple came out rig down travel to next location." 7/20/2011

H2S History:

Minimal H2S Recorded

Location Name	(Column Names)	2011						
		Jan	Mar	Apr	May	Jun	Jul	Aug
BONANZA 1023-5G3CS	Max(Separator H2S (ppm))	11	5	3	0	0	0	0
	Max(Tank H2S (ppm))	0	0	0	0	0	0	0

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. Tubing is below the proposed CBP depth, TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8088'). Visually inspect for scale and consider replacing if needed

3. If tbg looks ok consider running a gauge ring to 6200' (50' below proposed CBP). Otherwise P/U a mill and C/O to 6200' (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 6150'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6074	6075	3	3
WASATCH	6085	6090	4	20

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6074' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

7. Set 8000 psi CBP at ~5,781'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5606	5608	4	8
WASATCH	5631	5633	4	8
WASATCH	5749	5751	4	8

RECEIVED: Feb. 21, 2012

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5606' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLS**

9. Set 8000 psi CBP at ~5,596'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5490	5492	3	6
WASATCH	5543	5545	4	8
WASATCH	5564	5566	3	6

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5490' and flush only with recycled water.

11. Set 8000 psi CBP at~5,440'.

12. ND Frac Valves, NU and Test BOPs.

13. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.

14. Mill 3 plugs and clean out to a depth of 6140'.

15. Land tubing at 5576', drop ball and pump open sub. Flow back completion load. RDMO

16. MIRU, POOH tbg and mill. TIH with POBS and mill.

17. Mill last plug @ 6150' clean out to PBTD at 8635'. Land tubing at ±8088' pump off bit and bit sub. This well WILL be commingled at this time.

18. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

19. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

For design questions, please call
James Page, Denver, CO
720-929-6747 (Office)
303-501-2731 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)

NOTES:
TIGHT SPACING ON STAGE 2; OVERFLUSH BY 5 BBLS

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

RECEIVED: Feb. 21, 2012

Fracturing Schedules

Name BONANZA 1023-5G3C Copy to new book

Slickwater Frac

Casing Size	4.5
Recomplete?	N
Pad?	Y
ACTS?	Y

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	6074	6075	3	3	Varied	Pre-Pad & Pump-in test			Slickwater	3,965	3,965	94	94						
	WASATCH	6085	6090	4	20	0	ISIP and 5 min ISIP													38
	WASATCH					50	Slickwater Pad			Slickwater	3,155	7,120	75	170	15.0%	0.0%	0	0		9
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,517	17,638	250	420	50.0%	37.3%	6,573	6,573		32
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,362	25,000	175	595	35.0%	62.7%	11,043	17,617		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,965	28,965	94	690				17,617		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,617		0
	WASATCH											28,965	94	690						38
	WASATCH																			116
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		21,035								
			# of Perfs/stage		23									Flush depth	6074	gal/md-ft	192,981	161,621	lbs sand/md-ft	
						13.8	<< Above pump time (min)										CBP depth	5,781	293	
2	WASATCH	5606	5608	4	8	Varied	Pump-in test			Slickwater	0	0	0							
	WASATCH	5631	5633	4	8	0	ISIP and 5 min ISIP													
	WASATCH	5749	5751	4	8	50	Slickwater Pad			Slickwater	4,179	4,179	100	100	15.0%	0.0%	0	0		13
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	13,930	18,109	332	431	50.0%	37.3%	8,706	8,706		42
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	9,751	27,860	232	663	35.0%	62.7%	14,627	23,333		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,660	31,520	87	750				23,333		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	23,333		0
	WASATCH											31,520	87	750						36
	WASATCH																			91
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		27,860								
			# of Perfs/stage		24									Flush depth	5606	gal/md-ft	35,000	29,313	lbs sand/md-ft	
						15.0	<< Above pump time (min)										CBP depth	5,596	10	
3	WASATCH	5490	5492	3	6	Varied	Pump-in test			Slickwater	0	0	0							
	WASATCH	5543	5545	4	8	0	ISIP and 5 min ISIP													
	WASATCH	5564	5566	3	6	50	Slickwater Pad			Slickwater	5,822	5,822	139	139	15.0%	0.0%	0	0		17
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	19,408	25,230	462	601	50.0%	37.3%	12,130	12,130		58
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	13,585	38,815	323	924	35.0%	62.7%	20,378	32,508		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,584	42,399	85	1,009				32,508		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	32,508		0
	WASATCH											42,399	85	1,009						0
	WASATCH																			76
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		38,815								
			# of Perfs/stage		20									Flush depth	5490	gal/md-ft	35,000	29,313	lbs sand/md-ft	
						20.2	<< Above pump time (min)										CBP depth	5,440	50	
						0.0														
	Totals				67						**Total Fluid**	**102,884**	gals	**2,450**	bbls		**Total Sand**	**73,457**		
												2,450	bbls							
						0.8								**5.4**	tanks				**Total Scale Inhib. =**	**282**

Name BONANZA 1023-5G3CS
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	WASATCH	6074	6075	3	3		6068	to	6075
	WASATCH	6085	6090	4	20		6081	to	6091
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				23		CBP DEPTH	5,781	
2	WASATCH	5606	5608	4	8		5604	to	5611.5
	WASATCH	5631	5633	4	8		5628	to	5635
	WASATCH	5749	5751	4	8		5748	to	5752.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,596	
3	WASATCH	5490	5492	3	6		5486	to	5495.5
	WASATCH	5543	5545	4	8		5538	to	5555
	WASATCH	5564	5566	3	6		5562	to	5569.5
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				20		CBP DEPTH	5,440	
	Totals				67				

Service Company Supplied Chemicals - Job Totals

Friction Reducer	50	gals @	0.5	GPT
Surfactant	99	gals @	1.0	GPT
Clay Stabilizer	50	gals @	0.5	GPT
15% Hcl	750	gals @	250	gal/stg
Iron Control for acid	4	gals @	5.0	GPT of acid
Surfactant for acid	2	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	3	gals @	4.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	282	gals pumped per schedule above		
Biocide	50	gals @	0.5	GPT

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Acid Pickling and H2S Procedures (If Required)

**PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

RECEIVED: Feb. 21, 2012

Key Contact information

Completion Engineer

James Page 303-501-2731

Production Engineer

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Ben Smiley : 435/781-7010, 936/524-4231

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

RECEIVED: Feb. 21, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
See Atchmt	See Atchmt						
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
	99999	18519				5/1/2012	

Comments: Please see attachment with list of Wells in the Ponderosa Unit. 5/30/2012
lwsmvd

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

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MAY 21 2012
Div. of Oil, Gas & Mining

Cara Mahler
Name (Please Print)

Signature

REGULATORY ANALYST
Title

5/21/2012
Date

(5/2000)

well_name	sec	twp	rng	api	entity		lease	well	stat	qtr_qtr	bhl	surf	zone	a_stat	l_num	op_no
SOUTHMAN CANYON 31-3	31	090S	230E	4304734726	13717		1	GW	P	SENW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CANYON 31-4	31	090S	230E	4304734727	13742		1	GW	S	SESW		1	WSMVD	S	UTU-33433	N2995
SOUTHMAN CYN 31-2X (RIG SKID)	31	090S	230E	4304734898	13755		1	GW	P	NWNW		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31J	31	090S	230E	4304735149	13994		1	GW	P	NWSE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31B	31	090S	230E	4304735150	13953		1	GW	P	NWNE		1	MVRD	P	U-33433	N2995
SOUTHMAN CYN 923-31P	31	090S	230E	4304735288	14037		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31H	31	090S	230E	4304735336	14157		1	GW	P	SENE		1	WSMVD	P	U-33433	N2995
SOUTHMAN CYN 923-31O	31	090S	230E	4304737205	16827		1	GW	P	SWSE		1	MVRD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31K	31	090S	230E	4304737206	16503		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31G	31	090S	230E	4304737208	16313		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31E	31	090S	230E	4304737209	16521		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31A	31	090S	230E	4304737210	16472		1	GW	P	NENE		1	WSMVD	P	UTU-33433	N2995
SOUTHMAN CYN 923-31C	31	090S	230E	4304737227	16522		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-1G	01	100S	230E	4304735512	14458		1	GW	P	SWNE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1A	01	100S	230E	4304735717	14526		1	GW	P	NENE		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1E	01	100S	230E	4304735745	14524		1	GW	P	SWNW		1	WSMVD	P	U-40736	N2995
BONANZA 1023-1C	01	100S	230E	4304735754	14684		1	GW	P	NENW		1	MVRD	P	U-40736	N2995
BONANZA 1023-1K	01	100S	230E	4304735755	15403		1	GW	P	NESW		1	MVRD	P	U-38423	N2995
BONANZA 1023-1F	01	100S	230E	4304737379	16872		1	GW	P	SENW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1B	01	100S	230E	4304737380	16733		1	GW	P	NWNE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1D	01	100S	230E	4304737381	16873		1	GW	P	NWNW		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1H	01	100S	230E	4304737430	16901		1	GW	P	SENE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1L	01	100S	230E	4304738300	16735		1	GW	P	NWSW		1	MVRD	P	UTU-38423	N2995
BONANZA 1023-1J	01	100S	230E	4304738302	16871		1	GW	P	NWSE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-1I	01	100S	230E	4304738810	16750		1	GW	P	NESE		1	MVRD	P	UTU-40736	N2995
BONANZA 1023-2E	02	100S	230E	4304735345	14085		3	GW	P	SWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2C	02	100S	230E	4304735346	14084		3	GW	P	NENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2A	02	100S	230E	4304735347	14068		3	GW	P	NENE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2G	02	100S	230E	4304735661	14291		3	GW	P	SWNE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O	02	100S	230E	4304735662	14289		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2I	02	100S	230E	4304735663	14290		3	GW	S	NESE		3	WSMVD	S	ML-47062	N2995
BONANZA 1023-2MX	02	100S	230E	4304736092	14730		3	GW	P	SWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H	02	100S	230E	4304737093	16004		3	GW	P	SENE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D	02	100S	230E	4304737094	15460		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2B	02	100S	230E	4304737095	15783		3	GW	P	NWNE		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2P	02	100S	230E	4304737223	15970		3	GW	P	SESE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2N	02	100S	230E	4304737224	15887		3	GW	P	SESW		3	MVRD	P	ML-47062	N2995
BONANZA 1023-2L	02	100S	230E	4304737225	15833		3	GW	P	NWSW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2F	02	100S	230E	4304737226	15386		3	GW	P	SENW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2D-4	02	100S	230E	4304738761	16033		3	GW	P	NWNW		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2O-1	02	100S	230E	4304738762	16013		3	GW	P	SWSE		3	WSMVD	P	ML-47062	N2995
BONANZA 1023-2H3CS	02	100S	230E	4304750344	17426		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G3BS	02	100S	230E	4304750345	17428		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G2CS	02	100S	230E	4304750346	17429		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2G1BS	02	100S	230E	4304750347	17427		3	GW	P	NWNE	D	3	MVRD	P	ML 47062	N2995

BONANZA 1023-2M1S	02	100S	230E	4304750379	17443		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2L2S	02	100S	230E	4304750380	17444		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K4S	02	100S	230E	4304750381	17446		3	GW	P	SENW	D	3	MVRD	P	ML 47062	N2995
BONANZA 1023-2K1S	02	100S	230E	4304750382	17445		3	GW	P	SENW	D	3	WSMVD	P	ML 47062	N2995
BONANZA 4-6 *	04	100S	230E	4304734751	13841		1	GW	P	NESW		1	MNCS	P	UTU-33433	N2995
BONANZA 1023-4A	04	100S	230E	4304735360	14261		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4E	04	100S	230E	4304735392	14155		1	GW	P	SWNW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4C	04	100S	230E	4304735437	14252		1	GW	P	NENW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4M	04	100S	230E	4304735629	14930		1	GW	P	SWSW		1	WSMVD	P	U-33433	N2995
BONANZA 1023-4O	04	100S	230E	4304735688	15111		1	GW	P	SWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4I	04	100S	230E	4304735689	14446		1	GW	P	NESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4G	04	100S	230E	4304735746	14445		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4D	04	100S	230E	4304737315	16352		1	GW	P	NWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4H	04	100S	230E	4304737317	16318		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4B	04	100S	230E	4304737328	16351		1	GW	P	NWNE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4L	04	100S	230E	4304738211	16393		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-4P	04	100S	230E	4304738212	16442		1	GW	P	SESE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4N	04	100S	230E	4304738303	16395		1	GW	P	SESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-4FX (RIGSKID)	04	100S	230E	4304739918	16356		1	GW	P	SENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5O	05	100S	230E	4304735438	14297		1	GW	P	SWSE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5AX (RIGSKID)	05	100S	230E	4304735809	14243		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-5C	05	100S	230E	4304736176	14729		1	GW	P	NENW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G	05	100S	230E	4304736177	14700		1	GW	P	SWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5M	05	100S	230E	4304736178	14699		1	GW	P	SWSW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5K	05	100S	230E	4304736741	15922		1	GW	P	NESW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5B	05	100S	230E	4304737318	16904		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5E	05	100S	230E	4304737319	16824		1	GW	P	SWNW		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5H	05	100S	230E	4304737320	16793		1	GW	P	SENE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5N	05	100S	230E	4304737321	16732		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5L	05	100S	230E	4304737322	16825		1	GW	P	NWSW		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5J	05	100S	230E	4304737428	17055		1	GW	P	NWSE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5P	05	100S	230E	4304738213	16795		1	GW	P	SESE		1	MVRD	P	UTU-33433	N2995
BONANZA 1023-5N-1	05	100S	230E	4304738911	17060		1	GW	P	SESW		1	WSMVD	P	UTU-73450	N2995
BONANZA 1023-5PS	05	100S	230E	4304750169	17323		1	GW	P	NESE	D	1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-5G2AS	05	100S	230E	4304750486	17459		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G2CS	05	100S	230E	4304750487	17462		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3BS	05	100S	230E	4304750488	17461		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5G3CS	05	100S	230E	4304750489	17460		1	GW	P	SWNE	D	1	MVRD	P	UTU 33433	N2995
BONANZA 1023-5N4AS	05	100S	230E	4304752080	18484		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU73450	N2995
BONANZA 1023-8C2DS	05	100S	230E	4304752081	18507		1	GW	DRL	SWSW	D	1	WSMVD	DRL	UTU37355	N2995
BONANZA 6-2	06	100S	230E	4304734843	13796		1	GW	TA	NESW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6C	06	100S	230E	4304735153	13951		1	GW	P	NENW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6E	06	100S	230E	4304735358	14170		1	GW	P	SWNW		1	MVRD	P	U-38419	N2995
BONANZA 1023-6M	06	100S	230E	4304735359	14233		1	GW	P	SWSW		1	WSMVD	P	U-38419	N2995
BONANZA 1023-6G	06	100S	230E	4304735439	14221		1	GW	P	SWNE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6O	06	100S	230E	4304735630	14425		1	GW	TA	SWSE		1	WSMVD	TA	U-38419	N2995

* not moved in unit

BONANZA 1023-6A	06	100S	230E	4304736067	14775		1	GW	P	NENE		1	WSMVD	P	U-33433	N2995
BONANZA 1023-6N	06	100S	230E	4304737211	15672		1	GW	P	SESW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6L	06	100S	230E	4304737212	15673		1	GW	P	NWSW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6J	06	100S	230E	4304737213	15620		1	GW	P	NWSE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6F	06	100S	230E	4304737214	15576		1	GW	TA	SENW		1	WSMVD	TA	UTU-38419	N2995
BONANZA 1023-6P	06	100S	230E	4304737323	16794		1	GW	P	SESE		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6H	06	100S	230E	4304737324	16798		1	GW	S	SENE		1	WSMVD	S	UTU-33433	N2995
BONANZA 1023-6D	06	100S	230E	4304737429	17020		1	GW	P	NWNW		1	WSMVD	P	UTU-38419	N2995
BONANZA 1023-6B	06	100S	230E	4304740398	18291		1	GW	P	NWNE		1	WSMVD	P	UTU-33433	N2995
BONANZA 1023-6M1BS	06	100S	230E	4304750452	17578		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1AS	06	100S	230E	4304750453	17581		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N1CS	06	100S	230E	4304750454	17580		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6N4BS	06	100S	230E	4304750455	17579		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I2S	06	100S	230E	4304750457	17790		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6I4S	06	100S	230E	4304750458	17792		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6J3S	06	100S	230E	4304750459	17791		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6P1S	06	100S	230E	4304750460	17793		1	GW	P	NESE	D	1	WSMVD	P	UTU 38419	N2995
BONANZA 1023-6A2CS	06	100S	230E	4304751430	18292		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4BS	06	100S	230E	4304751431	18293		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6B4CS	06	100S	230E	4304751432	18294		1	GW	P	NWNE	D	1	WSMVD	P	UTU33433	N2995
BONANZA 1023-6C4BS	06	100S	230E	4304751449	18318		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
BONANZA 1023-6D1DS	06	100S	230E	4304751451	18316		1	GW	P	NENW	D	1	WSMVD	P	UTU38419	N2995
FLAT MESA FEDERAL 2-7	07	100S	230E	4304730545	18244		1	GW	S	NENW		1	WSMVD	S	U-38420	N2995
BONANZA 1023-7B	07	100S	230E	4304735172	13943		1	GW	P	NWNE		1	MVRD	P	U-38420	N2995
BONANZA 1023-7L	07	100S	230E	4304735289	14054		1	GW	P	NWSW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7D	07	100S	230E	4304735393	14171		1	GW	P	NWNW		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7P	07	100S	230E	4304735510	14296		1	GW	P	SESE		1	WSMVD	P	U-38420	N2995
BONANZA 1023-7H	07	100S	230E	4304736742	15921		1	GW	P	SENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7NX (RIGSKID)	07	100S	230E	4304736932	15923		1	GW	P	SESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7M	07	100S	230E	4304737215	16715		1	GW	P	SWSW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7K	07	100S	230E	4304737216	16714		1	GW	P	NESW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7E	07	100S	230E	4304737217	16870		1	GW	P	SWNW		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7G	07	100S	230E	4304737326	16765		1	GW	P	SWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7A	07	100S	230E	4304737327	16796		1	GW	P	NENE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7O	07	100S	230E	4304738304	16713		1	GW	P	SWSE		1	MVRD	P	UTU-38420	N2995
BONANZA 1023-7B-3	07	100S	230E	4304738912	17016		1	GW	P	NWNE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-07JT	07	100S	230E	4304739390	16869		1	GW	P	NWSE		1	WSMVD	P	UTU-38420	N2995
BONANZA 1023-7J2AS	07	100S	230E	4304750474	17494		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7J2DS	07	100S	230E	4304750475	17495		1	GW	P	NWSE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7L3DS	07	100S	230E	4304750476	17939		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7M2AS	07	100S	230E	4304750477	17942		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2AS	07	100S	230E	4304750478	17940		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7N2DS	07	100S	230E	4304750479	17941		1	GW	P	NWSW	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7O4S	07	100S	230E	4304750480	17918		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 1023-7P2S	07	100S	230E	4304750482	17919		1	GW	P	SESE	D	1	WSMVD	P	UTU 38420	N2995
BONANZA 8-2	08	100S	230E	4304734087	13851		1	GW	P	SESE		1	MVRD	P	U-37355	N2995

BONANZA 8-3	08	100S	230E	4304734770	13843	1	GW	P	NWNW		1	MVRD	P	U-37355	N2995
BONANZA 1023-8A	08	100S	230E	4304735718	14932	1	GW	P	NENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8L	08	100S	230E	4304735719	14876	1	GW	P	NWSW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8N	08	100S	230E	4304735720	15104	1	GW	P	SESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8F	08	100S	230E	4304735989	14877	1	GW	S	SENW		1	WSMVD	S	UTU-37355	N2995
BONANZA 1023-8I	08	100S	230E	4304738215	16358	1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8K	08	100S	230E	4304738216	16354	1	GW	P	NESW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8M	08	100S	230E	4304738217	16564	1	GW	P	SWSW		1	MVRD	P	UTU-37355	N2995
BONANZA 1023-8G	08	100S	230E	4304738218	16903	1	GW	P	SWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8E	08	100S	230E	4304738219	16397	1	GW	P	SWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8C	08	100S	230E	4304738220	16355	1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B	08	100S	230E	4304738221	16292	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8H	08	100S	230E	4304738222	16353	1	GW	P	SENE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8O	08	100S	230E	4304738305	16392	1	GW	P	SWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8B-4	08	100S	230E	4304738914	17019	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-8A1DS	08	100S	230E	4304750481	17518	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4BS	08	100S	230E	4304750483	17519	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B1AS	08	100S	230E	4304750484	17520	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B2AS	08	100S	230E	4304750485	17521	1	GW	P	NENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O2S	08	100S	230E	4304750495	17511	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J1S	08	100S	230E	4304750496	17509	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3S	08	100S	230E	4304750497	17512	1	GW	P	NWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J3	08	100S	230E	4304750498	17510	1	GW	P	NWSE		1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C4CS	08	100S	230E	4304750499	17544	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D2DS	08	100S	230E	4304750500	17546	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8D3DS	08	100S	230E	4304750501	17545	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3DS	08	100S	230E	4304750502	17543	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8A4CS	08	100S	230E	4304751131	18169	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8B3BS	08	100S	230E	4304751132	18167	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8C1AS	08	100S	230E	4304751133	18166	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G3AS	08	100S	230E	4304751134	18168	1	GW	P	NWNE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2AS	08	100S	230E	4304751135	18227	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F3BS	08	100S	230E	4304751136	18227	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4AS	08	100S	230E	4304751137	18224	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8F4DS	08	100S	230E	4304751138	18225	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J2CS	08	100S	230E	4304751139	18226	1	GW	P	SENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8G4DS	08	100S	230E	4304751140	18144	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H2DS	08	100S	230E	4304751141	18142	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H3DS	08	100S	230E	4304751142	18143	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8H4DS	08	100S	230E	4304751143	18141	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8I4BS	08	100S	230E	4304751144	18155	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8J4BS	08	100S	230E	4304751145	18154	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P1AS	08	100S	230E	4304751146	18156	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2BS	08	100S	230E	4304751147	18153	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P4AS	08	100S	230E	4304751148	18157	1	GW	P	NESE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8E2DS	08	100S	230E	4304751149	18201	1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995

BONANZA 1023-8E3DS	08	100S	230E	4304751150	18200		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K1CS	08	100S	230E	4304751151	18199		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8K4CS	08	100S	230E	4304751152	18198		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8L3DS	08	100S	230E	4304751153	18197		1	GW	P	NWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2AS	08	100S	230E	4304751154	18217		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8M2DS	08	100S	230E	4304751155	18216		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N2BS	08	100S	230E	4304751156	18218		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O3CS	08	100S	230E	4304751157	18254		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8N3DS	08	100S	230E	4304751158	18215		1	GW	P	SWSW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8O4AS	08	100S	230E	4304751159	18252		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P2CS	08	100S	230E	4304751160	18251		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-8P3CS	08	100S	230E	4304751161	18253		1	GW	P	SWSE	D	1	WSMVD	P	UTU 37355	N2995
CANYON FEDERAL 2-9	09	100S	230E	4304731504	1468		1	GW	P	NENW		1	MVRD	P	U-37355	N2995
SOUTHMAN CANYON 9-3-M	09	100S	230E	4304732540	11767		1	GW	S	SWSW		1	MVRD	S	UTU-37355	N2995
SOUTHMAN CANYON 9-4-J	09	100S	230E	4304732541	11685		1	GW	S	NWSE		1	MVRD	S	UTU-37355	N2995
BONANZA 9-6	09	100S	230E	4304734771	13852		1	GW	P	NWNE		1	MVRD	P	U-37355	N2995
BONANZA 9-5	09	100S	230E	4304734866	13892		1	GW	P	SESW		1	MVRD	P	U-37355	N2995
BONANZA 1023-9E	09	100S	230E	4304735620	14931		1	GW	P	SWNW		1	WSMVD	P	U-37355	N2995
BONANZA 1023-9I	09	100S	230E	4304738223	16766		1	GW	P	NESE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9D	09	100S	230E	4304738306	16398		1	GW	P	NWNW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9J	09	100S	230E	4304738811	16989		1	GW	P	NWSE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-9B3BS	09	100S	230E	4304750503	17965		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9B3CS	09	100S	230E	4304750504	17968		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2BS	09	100S	230E	4304750505	17966		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-9H2CS	09	100S	230E	4304750506	17967		1	GW	P	SENE	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 10-2	10	100S	230E	4304734704	13782		1	GW	P	NWNW		1	MVRD	P	U-72028	N2995
BONANZA 1023-10L	10	100S	230E	4304735660	15164		1	GW	P	NWSW		1	WSMVD	P	U-38261	N2995
BONANZA 1023-10E	10	100S	230E	4304738224	16501		1	GW	P	SWNW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C	10	100S	230E	4304738228	16500		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 1023-10C-4	10	100S	230E	4304738915	17015		1	GW	P	NENW		1	MVRD	P	UTU-72028	N2995
BONANZA 11-2 ✯	11	100S	230E	4304734773	13768		1	GW	P	SWNW		1	MVMCS	P	UTU-38425	N2995
BONANZA 1023-11K	11	100S	230E	4304735631	15132		1	GW	P	NESW		1	WSMVD	P	UTU-38425	N2995
BONANZA 1023-11B	11	100S	230E	4304738230	16764		1	GW	P	NWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11F	11	100S	230E	4304738232	16797		1	GW	P	SENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11D	11	100S	230E	4304738233	16711		1	GW	P	NWNW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11G	11	100S	230E	4304738235	16826		1	GW	P	SWNE		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11C	11	100S	230E	4304738309	16736		1	GW	P	NENW		1	MVRD	P	UTU-38425	N2995
BONANZA 1023-11J	11	100S	230E	4304738310	16839		1	GW	P	NWSE		1	WSMVD	P	UTU-38424	N2995
BONANZA 1023-11N	11	100S	230E	4304738311	16646		1	GW	P	SESW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11M	11	100S	230E	4304738312	16687		1	GW	P	SWSW		1	MVRD	P	UTU-38424	N2995
BONANZA 1023-11L	11	100S	230E	4304738812	16987		1	GW	P	NWSW		1	WSMVD	P	UTU-38424	N2995
NSO FEDERAL 1-12	12	100S	230E	4304730560	1480		1	GW	P	NENW		1	MVRD	P	UTU-38423	N2995
WHITE RIVER 1-14	14	100S	230E	4304730481	1500		1	GW	S	NENW		1	MVRD	S	U-38427	N2995
BONANZA 1023-14D	14	100S	230E	4304737030	16799		1	GW	P	NWNW		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-14C	14	100S	230E	4304738299	16623		1	GW	P	NENW		1	MVRD	P	UTU-38427	N2995
BONANZA FEDERAL 3-15	15	100S	230E	4304731278	8406		1	GW	P	NENW		1	MVRD	P	U-38428	N2995

✯ not moved into unit

BONANZA 1023-15H	15	100S	230E	4304738316	16688	1	GW	P	SENE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15J	15	100S	230E	4304738817	16988	1	GW	P	NWSE		1	MVRD	P	UTU-38427	N2995
BONANZA 1023-15H4CS	15	100S	230E	4304750741	17492	1	GW	P	NESE	D	1	MVRD	P	UTU 38427	N2995
BONANZA 1023-15I2AS	15	100S	230E	4304750742	17493	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15I4BS	15	100S	230E	4304750743	17490	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
BONANZA 1023-15P1BS	15	100S	230E	4304750744	17491	1	GW	P	NESE	D	1	WSMVD	P	UTU 38427	N2995
LOOKOUT POINT STATE 1-16	16	100S	230E	4304730544	1495	3	GW	P	NESE		3	WSMVD	P	ML-22186-A	N2995
BONANZA 1023-16J	16	100S	230E	4304737092	15987	3	GW	OPS	NWSE		3	WSMVD	OPS	ML-22186-A	N2995
BONANZA 1023-17B	17	100S	230E	4304735747	15165	1	GW	P	NWNE		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17C	17	100S	230E	4304738237	16585	1	GW	P	NENW		1	WSMVD	P	UTU-37355	N2995
BONANZA 1023-17D3S	17	100S	230E	4304750511	17943	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E2S	17	100S	230E	4304750512	17944	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3AS	17	100S	230E	4304750513	17945	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-17E3CS	17	100S	230E	4304750514	17946	1	GW	P	NENW	D	1	WSMVD	P	UTU 37355	N2995
BONANZA 1023-18G	18	100S	230E	4304735621	14410	1	GW	P	SWNE		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18B	18	100S	230E	4304735721	14395	1	GW	P	NWNE		1	WSMVD	P	U-38421	N2995
BONANZA 1023-18DX (RIGSKID)	18	100S	230E	4304736218	14668	1	GW	P	NWNW		1	WSMVD	P	U-38241	N2995
BONANZA 1023-18A	18	100S	230E	4304738243	16625	1	GW	P	NENE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18F	18	100S	230E	4304738244	16624	1	GW	P	SENW		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18E	18	100S	230E	4304738245	16645	1	GW	P	SWNW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18C	18	100S	230E	4304738246	16734	1	GW	P	NENW		1	MVRD	P	UTU-38421	N2995
BONANZA 1023-18G-1	18	100S	230E	4304738916	17135	1	GW	P	SWNE		1	WSMVD	P	UTU-38421	N2995
BONANZA 1023-18D3AS	18	100S	230E	4304750448	17498	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18D3DS	18	100S	230E	4304750449	17499	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E2DS	18	100S	230E	4304750450	17497	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18E3AS	18	100S	230E	4304750451	17496	1	GW	P	SENW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L2S	18	100S	230E	4304750520	18111	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18L3S	18	100S	230E	4304750521	18110	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3AS	18	100S	230E	4304751061	18112	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18K3BS	18	100S	230E	4304751063	18113	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2AS	18	100S	230E	4304751064	18117	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18M2DS	18	100S	230E	4304751065	18116	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2AS	18	100S	230E	4304751066	18114	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-18N2DS	18	100S	230E	4304751067	18115	1	GW	P	SWNW	D	1	WSMVD	P	UTU 38421	N2995
BONANZA 1023-10F	10	100S	230E	4304738225	16565		GW	P	SENW			MVRD	P	UTU 72028	N2995
BONANZA 1023-6D1AS	6	100S	230E	4304751450	18320		GW	P	NENW	D		WSMVD	P	UTU 38419	N2995
BONANZA 1023-6C1CS	6	100S	230E	4304751448	18319		GW		NENW	D				UTU 38419	N2995
BONANZA 1023-6D3AS	6	100S	230E	4304751452	18317		GW	P	NENW	D		WSMVD	P	UTU 38419	N2995

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU33433

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☑ Diff. Resvr.,
Other: RECOMPLETION

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.:

2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE, L.P.

8. Lease Name and Well No.: BONANZA 1023-5G3CS

3. Address: PO BOX 173779, DENVER, CO 80217

3a. Phone No. *(include area code)*: 720-929-6000

9. API Well No.: 4304750489

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: SWNE 2073 FNL 1480 FEL 39.97956 N LAT. 109.34550 W LON

At top prod. interval reported below: SWNE 2511 FNL 2465 FEL

At total depth: SWNE 2545 FNL 2519 FEL

10. Field and Pool or Exploratory: NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area: 5,T10S,R23E SLB
5 10S 23E

12. County or Parish: UINTAH

13. State: UT

14. Date Spudded: 01/18/2010

15. Date T.D. Reached: 02/21/2010

16. Date Completed: 04/19/2012 ☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 5319

18. Total Depth: MD 8710 TVD 8539

19. Plug Back T.D.: MD 8636 TVD 8465

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR-BHV-DSN/SDL/ACTR

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
								2140	PROD. CSG.

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8068							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5490	6090	5490-6490	0.36	67	OPEN
B) MESAVERDE	7008	8588	7008-8588	0.36	244	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5490-6490	PUMP 2,394 BBLS SLICK H2O & 73,220 LBS 30/50 OTTAWA SAND
	3 STAGES

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4/19/12	4/26/12	24	→	0	581	0			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
20 /64	86	500	→	0	581	0		PRODUCING

RECEIVED
JUN 12 2012
DIV. OF OIL, GAS & MINING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1182
				BIRD'S NEST	1417
				MAHOGANY	1973
				WASATCH	4389
				MESAVERDE	6471

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 5490-6090'; existing perforations: Mesaverde 7008-8588'. Iso plug was drilled out April 19, 2012 and zones are fully commingled. Test information is production from commingled zones.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* CARA MAHLER Title REGULATORY ANALYST

Signature Date 6/6/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS RED	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 3/29/2012	End Date: 4/19/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/29/2012	7:00 - 11:00	4.00	COMP	47	A	P		HSM, RIGGING UP MOVE RIG & EQUIP FROM NBU 1022-13J4S TO BONANZA 1023-5G3CS, SPOT EQUIP, RIG UP
	11:00 - 18:00	7.00	COMP	31	I	P		425# FTP & FCP, PUMP 30 BBLS DOWN TBG OPEN CSG TO FBT, N/D WH, N/U BOPS, UNLAND TBG, R/U SCAN TECH, POOH SCAN TBG. 256 JTS SCANNED 130 JTS YELLOW BAND 126 JTS RED (WALL LOSS & BAD PINS) R/D SCAN TECH, CSG TO SALES, SDFN
3/30/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, R/U WL
	7:30 - 9:26	1.93	COMP	34				FCP = 150#, MIRU CASED HOLE SOLUTIONS, P/U HALB 10K CBP, RIH & SET @ 6150', POOH R/D WL, N/D BOPS, N/U FV, RDMO
4/3/2012	7:00 - 8:30	1.50	COMP	33	C	P		MIRU B & C QUICK TEST, PSI TEST CSG, FV, CBP TO 1000#, 6# LOSS=15MIN, 3500#, 19#LOSS=15 MIN, 6200#, 50# LOSS=30 MIN,RDMO B & C, SWI (GOOD TEST)
4/13/2012	8:45 - 9:00	0.25	COMP	48		P		HSM & JSA W/CASEDHOLE SOLUATIONS.
	9:00 - 9:50	0.83	COMP	37	B	P		WHP 0 PSI. (ISOLATION CBP @ 6150') MIRU WIRELINE, PU 3 3/8" GNS, 23 gm, 0.36 HOLE, 90 & 120 DEG PHSG, 23 HOLES. RIH & PERF WASATCH AS PER DESIGN. POOH & L/D TOOLS. SWI - PREP TO FRAC 4/16/12.
4/16/2012	6:45 - 7:00	0.25	COMP	48		P		HSM & JSA W/SUPERIOR WELL SERVICE & CASEDHOLE WIRELINE.
	8:26 - 8:45	0.32	COMP	36	E			MIRU SUPERIOR WELL SERVICE. P/T PUMP & LINES TO 7400 PSI. FRAC STG 1) WHP 1422 PSI. BRK DWN PERF 3.8 BPM @ 3966 PSI. ISIP 2564 PSI. FG. 0.86. EST INJ RATE 53.8 BPM @ 4762 PSI. 23/23 PERFS OPEN - 100%. MP 6094 PSI, MR 54.7 BPM, AP 5050 PSI, AR 54.1 BPM. ISIP 3028 PSI, F.G. 0.94, NPI 464 PSI. PMP'D 693 BBLS SLK WTR, 17,580 LBS 30/50 SND. X-OVER FOR WL.
	8:48 - 9:33	0.75	COMP	37	B	P		PERF STG 2) P/U 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 90 DEG PHSG. PERF WASATCH AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	10:28 - 10:47	0.32	COMP	36	E	P		FRAC STG 2) WHP 767 PSI. BRK DWN PERF 4 BPM @ 2675 PSI. ISIP 1264 PSI. F.G. 0.66. EST INJ RATE 50.5 BPM @ 3329 PSI. 24/24 PERFS OPEN - 100%. MP 3450 PSI, MR 51.1 BPM, AP 3190 PSI, AR 50.6 BPM. ISIP 1831 PSI, F.G. 0.76, NPI 567 PSI. PMP'D 709 BBLS SLK WTR, 23,216 LBS 30/50 TLC SND. X-OVER FOR WL.

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS RED	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 3/29/2012	End Date: 4/19/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:50 - 11:35	0.75	COMP	37	B	P		PERF STG 3) P/U 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 90 & 120 DEG PHSG. PERF WASATCH AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	12:06 - 12:30	0.40	COMP	36	E	P		FRAC STG 3) WHP 1199 PSI. BRK DWN PERF 4 BPM @ 1754 PSI. ISIP 1381 PSI. F.G. 0.69. EST INJ RATE 50 BPM @ 4929 PSI. 16/20 PERFS OPEN - 68%. MP 5016 PSI, MR 50.5 BPM, AP 4726 PSI, AR 48.5 BPM. ISIP 1633 PSI, F.G. 0.73, NPI 252 PSI. PMP'D 992 BBLS SLK WTR, 32,424 LBS 30/50 TLC SND. X-OVER FOR WL
	12:35 - 13:10	0.58	COMP	34	I	P		KILL PLUG) P/U HALCO 8K CBP. RIH SET CBP @ 5440'. POOH W/TOOLS. SWI - SDFN TOTAL WATER 2,394 BBLS TOATL SAND 73,220 LBS SCALE INHIBITOR 76 GAL BIOCIDE 35 GAL
4/18/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING DOWN RIG & MOVING.
	7:30 - 15:00	7.50	COMP	30	A	P		RIG DOWN OFF NBU 45N2, MIRU ND WH, NU BOPS, RU FLOOR & EQUIP.
	15:00 - 17:00	2.00	COMP	31	I	P		TALLY & PU 37/8 BIT, PUMP OPEN SUB, 1.875 X/N & 114 JTS 23/8 L-80 OFF FLOAT, EOT @ 3611', SWI SDFN
4/19/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, PICKING TBG UP OFF FLOAT.
	7:30 - 9:00	1.50	COMP	31	I	P		SICP 0, PU REM 58 JTS 23/8 L-80, TAG UP ON KILL PLUG, RU DRLG EQUIP.
	9:00 - 13:30	4.50	COMP	44	C	P		BROKE CIRC CONV, TEST BOPS TO 3,000 PSI OK. C/O 15' SAND TAG 1ST PLUG @ 5,440' DRL PLG IN 5 MIN, 0# PSI INCREASE RIH C/O 25' SAND TAG 2ND PLUG @ 5,596' DRL PLG IN 4 MIN, 0# PSI INCREASE RIH C/O 120' SAND TAG 3RD PLUG @ 5,781' DRL PLG IN 3 MIN, 200# PSI INCREASE RIH C/O TO 6,150' , CIRC CLN WELL DIED, BLEW WELL AROUND W/ AIR/N2. WELL FLOWING, L/D 18 JTS.WELL FLOWING W/ 0 PSI, PU 18 JTS,

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS RED	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 3/29/2012	End Date: 4/19/2012
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:30 - 17:30	4.00	COMP					BROKE CIRC W/ AIR/N2 UNITS, D/O ISOLATION PLUG @ 6150' IN 4 MIN, 0 PSI INCREASE, KILL TBG, RIH TAG UP @ 8590'. L/D 17 LAND TBG ON 254 JTS 23/8 L-80. ND BOPS NU WH, TEST FLOW LINE TO 3,000 PSI, PUMP OPEN BIT W/ AIR/N2 UNITS, TURN WELL OVER TO FB CREW. KB= 13' (SURFOPEN W/ POPOFF) HANGER = .83' SICP 200 PSI, FTP 50 PSI 254 JTS 23/8 L-80 = 8051.72' PUMP OPEN W/ 1.875 X/N = 2.10' EOT @ 8067.65' TWTR 2639 BBLS TWR 406 BBLS TWLTR 2233 BBLS 283 JTS IN WELL 254 LANDED 29 TO RETURN
	18:30 -		COMP	50				WELL TURNED TO SALE AT 1830 HR ON 4/19/2012 - 1500 MCFD, 1584 BWPD, FCP 600#, FTP 560#, CK 20/64
4/20/2012	9:00 - 17:00	8.00	COMP	31	H	X		R/U WEATHERFORD FOAM / N2 UNLOAD WELL DOWN TBG 2 HR WATCH FLOW 1HR, DIED. UNLOAD WELL 1 1/2 HR, T/O TO FB CREW.
4/26/2012	7:00 -			50				WELL IP'D ON 4/26/12 - 581 MCFD, 0 BOPD, 0 BWPD, CP .35#, FTP 86#, CK 20/64#, LP 71#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5G3CS RED	Wellbore No.	OH
Well Name	BONANZA 1023-5G3CS	Wellbore Name	BONANZA 1023-5G3CS
Report No.	1	Report Date	3/29/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-5G PAD
Rig Name/No.	ROCKY MOUNTAIN WELL SERVICE 3/3	Event	RECOMPL/RESEREVEADD
Start Date	3/29/2012	End Date	4/19/2012
Spud Date	1/21/2010	Active Datum	RKB @5,333.00usft (above Mean Sea Level)
UWI	SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,490.0 (usft)-6,090.0 (usft	Start Date/Time	4/3/2012 12:00AM
No. of Intervals	8	End Date/Time	4/3/2012 12:00AM
Total Shots	67	Net Perforation Interval	18.00 (usft)
Avg Shot Density	3.72 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

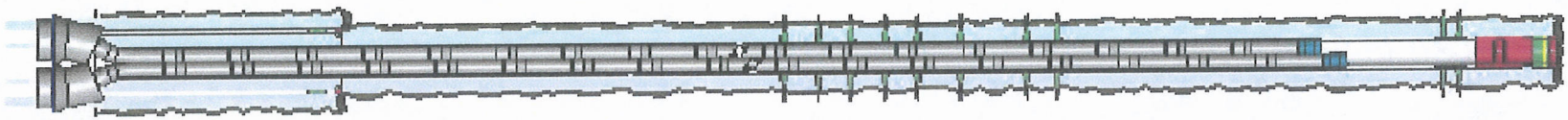
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/3/2012 12:00AM	WASATCH/			5,490.0	5,492.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/3/2012 12:00AM	WASATCH/			5,543.0	5,545.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			5,564.0	5,566.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			5,606.0	5,608.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			5,631.0	5,633.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			5,749.0	5,751.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			6,074.0	6,075.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/3/2012 12:00AM	WASATCH/			6,085.0	6,090.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 33433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: PONDEROSA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 1023-5G3CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047504890000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2073 FNL 1480 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 05 Township: 10.0S Range: 23.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 10/22/2013	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: Production Enhancement

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator conducted the following workover/wellbore cleanout on the subject well on 10/22/2013. Please see the attached chronological well history for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
December 05, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE		**DATE**
N/A		12/4/2013

RECEIVED: Dec. 04, 2013

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS RED	Spud Conductor: 1/18/2010	Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD	Rig Name No: SWABBCO 8/8
Event: WELL WORK EXPENSE	Start Date: 10/18/2013	End Date: 10/22/2013
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/18/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 11:00	3.75	MAINT	30	A	P		MIRU, 140# FCP, CONTROL WELL W/ 20 BBLS T-MAC, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	11:00 - 17:00	6.00	MAINT	31	I	P		UNLAND TBG, TIH W/ 16 JTS, TAG FILL @ 8561' (27' ABOVE BTM PERF), TOOH LD 16 JTS TBG, MIRU SCAN TECH, TOOH & SCAN TBG, TBG SCAN SHOWED 175 GOOD JTS & 79 BAD JTS, 7 JTS WERE REJECTED DUE TO WALL LOSS & 72 JTS WERE NO DRIFT, RD SCAN TECH, SDFWE
10/21/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 11:30	4.25	MAINT	31	I	P		75# FCP CONTROL WELL W/ 15 BBLS T-MAC, P/U X-LONG 3-7/8" MILL, TIH W/ 2-3/8" TBG, TAG FILL @ 8478'
	11:30 - 14:30	3.00	MAINT	44	D	P		MIRU PWR SWVL, MIRU WEATHERFORD N2 UNIT, ESTB CIRC IN 40 MINS, C/O FROM 8478 TO 8636' & HIT HARD SPOT, CIRC WELL CLEAN, RD WEATHERFORD
	14:30 - 17:00	2.50	MAINT	31	I	P		TOOH W/ TBG, LD 18 JTS ON TRAILER, STAND THE REST BACK IN DERRICK, LD MILL, SDFN
10/22/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 10:30	3.25	MAINT	31	I	P		180# FCP, CONTROL WELL W/ 20 BBLS T-MAC, M/U LSN, TIH W/ 2-3/8" TBG, BROACH TBG TO LSN W/ 1.910 BROACH, LAND TBG ON HANGER W/ 255 JTS
	10:30 - 11:30	1.00	MAINT	30	C	P		ND BOP'S, NU WH, SWI, RDMO KB 13' HANGER .83' 171 JTS 2-3/8" L80 5406.80' 6' SUB 2-3/8" L-80 6.20' 84 JTS 203/8" J-55 2635.79' EOT @ 8064.10' TWLTR 40 BBLS

RECEIVED: Dec. 04, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 14, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE N/A		**DATE** 12/4/2013

RECEIVED: Jan. 08, 2014

US ROCKIES REGION

Operation Summary Report

Well: BONANZA 1023-5G3CS RED	Spud Conductor: 1/18/2010		Spud Date: 1/21/2010
Project: UTAH-UINTAH	Site: BONANZA 1023-5G PAD		Rig Name No:
Event: WELL WORK EXPENSE	Start Date: 11/20/2013		End Date: 11/20/2013
Active Datum: RKB @5,333.00usft (above Mean Sea Level)	UWI: SW/NE/0/10/S/23/E/5/0/0/26/PM/N/2,073.00/E/0/1,480.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/20/2013	7:00 - 13:00	6.00	MAINT	35				SLICKLINE REPORT SERVICE RECORD WELL NAME:Bonanza 1023-G3CSJob Code:80012176 WINS #:ZID:CTS953 FOREMAN:V1-Ryan KunkelMECHANICAL:Ron Allred SLICKLINE COMPANYJDM SLICKLINE OPERATORAdam MillerTEL.NUMBER:435-828-0593 11/20/2013Ex. mm/dd/yy JOB DESCRIPTION Flowed well 10 min. Caught viper plunger. RIH w/ Scratcher to 8078' RIH w/ Broach to 8078' Tight spots from 7100'-8000' Felt like really thick fluid on bottom. Flowed well 10 min. RIH w/ JDC tool to 8078' Jarred 15-20 times walking up to 1000 lbs Came free. Pulled BS. RIH w/ sample bailer to 8100' Collected sample. Dropped BS chased to 8078' Dropped Plunger FLUID LEVEL6200SEAT NIPPLE DEPTH8078 SN TYPEXTD (Max Depth)8100 JOB DETAILS SPRING AND/OR PRODUTION TOOL DETAIL Spring OutUsed-TitaniumSpring InUsed-Titanium Stuck SpringDrop Down MenuCorrosion on SpringNo Bailed AcidNo Broken SpringNoScale on SpringYes Production ToolsDrop Down MenuDepth of Tool8078 Other HardwareDrop Down Menu PLUNGER DETAIL Stuck PlungerNo, it came freeCorrosion on PlungerNo Broken PlungerDrop Down MenuScale on PlungerNo SOLIDS DETAIL Tight SpotsYes, down by SNSeverity of TrashMedium Solid sample to turn inYesSolid Sample SourceTubing Speculated Type of SolidDrop Down MenuSpeculated Depth of Solid8078 LOST SLICKLINE TOOLS Slickline Tools LostNoDepth of Tool JOB CHARGES ITEM# UNITSUNITS$/UNITTOTAL Hourly Operating Charge1016 hrs$125.00$750.00 Tool Rental0HRS$0.00$0.00 Maintenance job charge0JOB$0.00$0.00 $0.00 TOTAL$750.00

RECEIVED: Dec. 04, 2013